```
;              APPLICATION NUMBER: US/09/660,954
;              FILING DATE: 13-Sep-2000
;              CLASSIFICATION: <Unknown>
;         PRIOR APPLICATION DATA:
;              APPLICATION NUMBER: US/09/388,890
;              FILING DATE: <Unknown>
;              APPLICATION NUMBER: 08/686,959
;              FILING DATE: <Unknown>
;         ATTORNEY/AGENT INFORMATION:
;              NAME: AUERBACH, JEFFREY I.
;              REGISTRATION NUMBER: 32,680
;         TELECOMMUNICATION INFORMATION:
;              TELEPHONE: (202) 383-7451
;              TELEFAX: (202) 383-6610
;    INFORMATION FOR SEQ ID NO: 8:
;         SEQUENCE CHARACTERISTICS:
;              LENGTH: 28 amino acids
;              TYPE: amino acid
;              TOPOLOGY: linear
;         MOLECULE TYPE: peptide
;         HYPOTHETICAL: YES
;         FRAGMENT TYPE: N-terminal
;         ORIGINAL SOURCE:
;              ORGANISM: HOMO SAPIENS
;         IMMEDIATE SOURCE:
;              CLONE: E11Q B(1-28) peptide of amyloid B protein
;         SEQUENCE DESCRIPTION: SEQ ID NO: 8:
US-09-660-954-8

  Query Match             85.4%;  Score 35;  DB 4;  Length 28;
  Best Local Similarity   100.0%;  Pred. No. 1.3;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 53
US-09-660-954-9
; Sequence 9, Application US/09660954
; Patent No. 6471960
;    GENERAL INFORMATION:
;         APPLICANT: ANDERSON, STEPHEN
;         TITLE OF INVENTION: METHODS FOR THE PREVENTION AND TREATMENT
;                             OF VASCULAR HEMORRHAGING AND ALZHEIMER'S DISEASE
;         NUMBER OF SEQUENCES: 14
;         CORRESPONDENCE ADDRESS:
;              ADDRESSEE: HOWREY & SIMON
;              STREET: 1299 PENNSYLVANIA AVENUE, N.W.
;              CITY: WASHINGTON
;              STATE: D.C.
;              COUNTRY: US
;              ZIP: 20004
;         COMPUTER READABLE FORM:
;              MEDIUM TYPE: Floppy disk
;              COMPUTER: IBM PC compatible
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;              OPERATING SYSTEM: PC-DOS/MS-DOS
;              SOFTWARE: PatentIn Release #1.0, Version #1.25
;         CURRENT APPLICATION DATA:
;              APPLICATION NUMBER: US/09/660,954
;              FILING DATE: 13-Sep-2000
;              CLASSIFICATION: <Unknown>
;         PRIOR APPLICATION DATA:
;              APPLICATION NUMBER: US/09/388,890
;              FILING DATE: <Unknown>
;              APPLICATION NUMBER: 08/686,959
;              FILING DATE: <Unknown>
;         ATTORNEY/AGENT INFORMATION:
;              NAME: AUERBACH, JEFFREY I.
;              REGISTRATION NUMBER: 32,680
;         TELECOMMUNICATION INFORMATION:
;              TELEPHONE: (202) 383-7451
;              TELEFAX: (202) 383-6610
;    INFORMATION FOR SEQ ID NO: 9:
;         SEQUENCE CHARACTERISTICS:
;              LENGTH: 28 amino acids
;              TYPE: amino acid
;              TOPOLOGY: linear
;         MOLECULE TYPE: peptide
;         HYPOTHETICAL: YES
;         FRAGMENT TYPE: N-terminal
;         ORIGINAL SOURCE:
;              ORGANISM: HOMO SAPIENS
;         IMMEDIATE SOURCE:
;              CLONE: H13Q B(1-28) peptide of amyloid B protein
;         SEQUENCE DESCRIPTION: SEQ ID NO: 9:
US-09-660-954-9

  Query Match             85.4%;  Score 35;  DB 4;  Length 28;
  Best Local Similarity   100.0%;  Pred. No. 1.3;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 54
US-09-660-954-10
; Sequence 10, Application US/09660954
; Patent No. 6471960
;   GENERAL INFORMATION:
;         APPLICANT: ANDERSON, STEPHEN
;         TITLE OF INVENTION: METHODS FOR THE PREVENTION AND TREATMENT
;                             OF VASCULAR HEMORRHAGING AND ALZHEIMER'S DISEASE
;         NUMBER OF SEQUENCES: 14
;         CORRESPONDENCE ADDRESS:
;              ADDRESSEE: HOWREY & SIMON
;              STREET: 1299 PENNSYLVANIA AVENUE, N.W.
;              CITY: WASHINGTON
;              STATE: D.C.
;              COUNTRY: US
;              ZIP: 20004
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;         COMPUTER READABLE FORM:
;              MEDIUM TYPE: Floppy disk
;              COMPUTER: IBM PC compatible
;              OPERATING SYSTEM: PC-DOS/MS-DOS
;              SOFTWARE: PatentIn Release #1.0, Version #1.25
;         CURRENT APPLICATION DATA:
;              APPLICATION NUMBER: US/09/660,954
;              FILING DATE: 13-Sep-2000
;              CLASSIFICATION: <Unknown>
;         PRIOR APPLICATION DATA:
;              APPLICATION NUMBER: US/09/388,890
;              FILING DATE: <Unknown>
;              APPLICATION NUMBER: 08/686,959
;              FILING DATE: <Unknown>
;         ATTORNEY/AGENT INFORMATION:
;              NAME: AUERBACH, JEFFREY I.
;              REGISTRATION NUMBER: 32,680
;         TELECOMMUNICATION INFORMATION:
;              TELEPHONE: (202) 383-7451
;              TELEFAX: (202) 383-6610
;    INFORMATION FOR SEQ ID NO: 10:
;         SEQUENCE CHARACTERISTICS:
;              LENGTH: 28 amino acids
;              TYPE: amino acid
;              TOPOLOGY: linear
;         MOLECULE TYPE: peptide
;         HYPOTHETICAL: YES
;         FRAGMENT TYPE: N-terminal
;         ORIGINAL SOURCE:
;              ORGANISM: HOMO SAPIENS
;         IMMEDIATE SOURCE:
;              CLONE: H14Q B(1-28) peptide of amyloid B protein
;         SEQUENCE DESCRIPTION: SEQ ID NO: 10:
US-09-660-954-10

 Query Match             85.4%;  Score 35;  DB 4;  Length 28;
  Best Local Similarity   100.0%;  Pred. No. 1.3;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 55
US-09-660-954-11
; Sequence 11, Application US/09660954
; Patent No. 6471960
;    GENERAL INFORMATION:
;         APPLICANT: ANDERSON, STEPHEN
;         TITLE OF INVENTION: METHODS FOR THE PREVENTION AND TREATMENT
;                             OF VASCULAR HEMORRHAGING AND ALZHEIMER'S DISEASE
;         NUMBER OF SEQUENCES: 14
;         CORRESPONDENCE ADDRESS:
;              ADDRESSEE: HOWREY & SIMON
;              STREET: 1299 PENNSYLVANIA AVENUE, N.W.
;              CITY: WASHINGTON
```

```
;              STATE: D.C.
;              COUNTRY: US
;              ZIP: 20004
;         COMPUTER READABLE FORM:
;              MEDIUM TYPE: Floppy disk
;              COMPUTER: IBM PC compatible
;              OPERATING SYSTEM: PC-DOS/MS-DOS
;              SOFTWARE: PatentIn Release #1.0, Version #1.25
;         CURRENT APPLICATION DATA:
;              APPLICATION NUMBER: US/09/660,954
;              FILING DATE: 13-Sep-2000
;              CLASSIFICATION: <Unknown>
;         PRIOR APPLICATION DATA:
;              APPLICATION NUMBER: US/09/388,890
;              FILING DATE: <Unknown>
;              APPLICATION NUMBER: 08/686,959
;              FILING DATE: <Unknown>
;         ATTORNEY/AGENT INFORMATION:
;              NAME: AUERBACH, JEFFREY I.
;              REGISTRATION NUMBER: 32,680
;         TELECOMMUNICATION INFORMATION:
;              TELEPHONE: (202) 383-7451
;              TELEFAX: (202) 383-6610
;    INFORMATION FOR SEQ ID NO: 11:
;         SEQUENCE CHARACTERISTICS:
;              LENGTH: 28 amino acids
;              TYPE: amino acid
;              TOPOLOGY: linear
;         MOLECULE TYPE: peptide
;         HYPOTHETICAL: YES
;         FRAGMENT TYPE: N-terminal
;         ORIGINAL SOURCE:
;              ORGANISM: HOMO SAPIENS
;         IMMEDIATE SOURCE:
;              CLONE: K16Q B(1-28) peptide of amyloid B protein
;         SEQUENCE DESCRIPTION: SEQ ID NO: 11:
US-09-660-954-11

  Query Match             85.4%;  Score 35;  DB 4;  Length 28;
  Best Local Similarity   100.0%;  Pred. No. 1.3;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 56
US-09-660-954-14
; Sequence 14, Application US/09660954
; Patent No. 6471960
;   GENERAL INFORMATION:
;         APPLICANT: ANDERSON, STEPHEN
;         TITLE OF INVENTION: METHODS FOR THE PREVENTION AND TREATMENT
;                             OF VASCULAR HEMORRHAGING AND ALZHEIMER'S DISEASE
;         NUMBER OF SEQUENCES: 14
;         CORRESPONDENCE ADDRESS:
```

```
;              ADDRESSEE: HOWREY & SIMON
;              STREET: 1299 PENNSYLVANIA AVENUE, N.W.
;              CITY: WASHINGTON
;              STATE: D.C.
;              COUNTRY: US
;              ZIP: 20004
;         COMPUTER READABLE FORM:
;              MEDIUM TYPE: Floppy disk
;              COMPUTER: IBM PC compatible
;              OPERATING SYSTEM: PC-DOS/MS-DOS
;              SOFTWARE: PatentIn Release #1.0, Version #1.25
;         CURRENT APPLICATION DATA:
;              APPLICATION NUMBER: US/09/660,954
;              FILING DATE: 13-Sep-2000
;              CLASSIFICATION: <Unknown>
;         PRIOR APPLICATION DATA:
;              APPLICATION NUMBER: US/09/388,890
;              FILING DATE: <Unknown>
;              APPLICATION NUMBER: 08/686,959
;              FILING DATE: <Unknown>
;         ATTORNEY/AGENT INFORMATION:
;              NAME: AUERBACH, JEFFREY I.
;              REGISTRATION NUMBER: 32,680
;         TELECOMMUNICATION INFORMATION:
;              TELEPHONE: (202) 383-7451
;              TELEFAX: (202) 383-6610
;    INFORMATION FOR SEQ ID NO: 14:
;         SEQUENCE CHARACTERISTICS:
;              LENGTH: 28 amino acids
;              TYPE: amino acid
;              TOPOLOGY: linear
;         MOLECULE TYPE: peptide
;         HYPOTHETICAL: YES
;         FRAGMENT TYPE: N-terminal
;         ORIGINAL SOURCE:
;              ORGANISM: HOMO SAPIENS
;         IMMEDIATE SOURCE:
;              CLONE: K28Q B(1-28) peptide of amyloid B protein
;         SEQUENCE DESCRIPTION: SEQ ID NO: 14:
US-09-660-954-14

  Query Match             85.4%;  Score 35;  DB 4;  Length 28;
  Best Local Similarity   100.0%;  Pred. No. 1.3;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 57
US-08-898-300-4
; Sequence 4, Application US/08898300
; Patent No. 6548630
;  GENERAL INFORMATION:
;    APPLICANT:  Zhang, Shuguang
;    APPLICANT:  Lockshin, Curtis
```

```
;    APPLICANT:  Rich, Alexander
;    APPLICANT:  Holmes, Todd
;    TITLE OF INVENTION:  STABLE MACROSCOPIC MEMBRANES FORMED BY
;    TITLE OF INVENTION:  SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
;    TITLE OF INVENTION:  THEREFOR
;    NUMBER OF SEQUENCES:  64
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
;      STREET:  Two Militia Drive
;      CITY:  Lexington
;      STATE:  Massachusetts
;      COUNTRY:  U.S.A.
;      ZIP:  02173-4799
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/898,300
;      FILING DATE:  22 JULY 1997
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/346,849
;      FILING DATE:  30 NOVENBER 1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/973,326
;      FILING DATE:  28 DECEMBER 1992
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Brook, David E.
;      REGISTRATION NUMBER:  22,592
;      REFERENCE/DOCKET NUMBER:  MIT-6008FB
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (781) 861-6240
;      TELEFAX:  (781) 861-9540
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  28 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-898-300-4

  Query Match             85.4%;  Score 35;  DB 4;  Length 28;
  Best Local Similarity   100.0%;  Pred. No. 1.3;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 58
US-08-609-090-3
; Sequence 3, Application US/08609090
; Patent No. 5840838
;  GENERAL INFORMATION:
```

```
;     APPLICANT:  HENSLEY, Kenneth
;     APPLICANT:  BUTTERFIELD, D. A.
;     APPLICANT:  CARNEY, John M.
;     APPLICANT:  AKSENOV, Michael
;     TITLE OF INVENTION:  A PROCESS FOR ENHANCING THE ACTIVITY OF
;     TITLE OF INVENTION:  AN OLIGOPEPTIDE OR POLYPEPTIDES
;     NUMBER OF SEQUENCES:  11
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  LOWE PRICE LEBLANC & BECKER
;       STREET:  99 Canal Center Plaza, Suite 300
;       CITY:  Alexandria
;       STATE:  Virginia
;       COUNTRY:  USA
;       ZIP:  22314
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.30
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/609,090
;       FILING DATE:  29-FEB-1996
;       CLASSIFICATION:  530
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Kraus, Eric J.
;       REGISTRATION NUMBER:  36,190
;       REFERENCE/DOCKET NUMBER:  434-059
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  703-684-1111
;       TELEFAX:  703-684-1124
;   INFORMATION FOR SEQ ID NO:  3:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  30 amino acids
;       TYPE:  amino acid
;       STRANDEDNESS:  single
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  peptide
US-08-609-090-3

  Query Match             85.4%;  Score 35;  DB 2;  Length 30;
  Best Local Similarity   100.0%;  Pred. No. 1.3;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 59
US-08-609-090-4
; Sequence 4, Application US/08609090
; Patent No. 5840838
;  GENERAL INFORMATION:
;     APPLICANT:  HENSLEY, Kenneth
;     APPLICANT:  BUTTERFIELD, D. A.
;     APPLICANT:  CARNEY, John M.
;     APPLICANT:  AKSENOV, Michael
```

```
;    TITLE OF INVENTION:  A PROCESS FOR ENHANCING THE ACTIVITY OF
;    TITLE OF INVENTION:  AN OLIGOPEPTIDE OR POLYPEPTIDES
;    NUMBER OF SEQUENCES:  11
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LOWE PRICE LEBLANC & BECKER
;      STREET:  99 Canal Center Plaza, Suite 300
;      CITY:  Alexandria
;      STATE:  Virginia
;      COUNTRY:  USA
;      ZIP:  22314
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/609,090
;      FILING DATE:  29-FEB-1996
;      CLASSIFICATION:  530
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Kraus, Eric J.
;      REGISTRATION NUMBER:  36,190
;      REFERENCE/DOCKET NUMBER:  434-059
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  703-684-1111
;      TELEFAX:  703-684-1124
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  33 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-609-090-4

  Query Match             85.4%;  Score 35;  DB 2;  Length 33;
  Best Local Similarity   100.0%;  Pred. No. 1.5;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 60
US-08-475-579A-4
; Sequence 4, Application US/08475579A
; Patent No. 5854215
;  GENERAL INFORMATION:
;    APPLICANT:  Mark A. Findeis et al.
;    TITLE OF INVENTION:  Modulators of {SYMBOL 98 \f "Symbol"}-Amyloid Peptide
Aggrega
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD
;      STREET:  28 State Street
;      CITY:  Boston
```

```
;       STATE:  Massachusetts
;       COUNTRY:  USA
;       ZIP:  02109
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/475,579A
;       FILING DATE:  07-JUN-1995
;       CLASSIFICATION:  514
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  08/404,831
;       FILING DATE:  14-MAR-1995
;       CLASSIFICATION:  514
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Kara, Catherine J.
;       REGISTRATION NUMBER:  P41,106
;       REFERENCE/DOCKET NUMBER:  PPI-002CP
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (617)227-7400
;       TELEFAX:  (617)742-4214
;   INFORMATION FOR SEQ ID NO:  4:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  34 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  peptide
;     FRAGMENT TYPE:  internal
US-08-475-579A-4

  Query Match             85.4%;  Score 35;  DB 2;  Length 34;
  Best Local Similarity   100.0%;  Pred. No. 1.5;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         11 LVFFAED 17


RESULT 61
US-08-304-585-6
; Sequence 6, Application US/08304585
; Patent No. 5721106
;  GENERAL INFORMATION:
;     APPLICANT:  Maggio, John E.
;     APPLICANT:  Mantyh, Patrick W.
;     TITLE OF INVENTION:  LABELLED BETA-AMYLOID PEPTIDE AND
;     TITLE OF INVENTION:  METHODS FOR USE IN DETECTING ALZHEIMER'S DISEASE
;     NUMBER OF SEQUENCES:  12
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  Mueting, Raasch, Gebhardt & Schwappach, P.A.
;       STREET:  P.O. Box 581415
;       CITY:  Minneapolis
;       STATE:  MN
;       COUNTRY:  USA
```

```
;       ZIP:  55458-1415
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.30
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/304,585
;       FILING DATE:  12-SEP-1994
;       CLASSIFICATION:  435
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Mueting, Ann M.
;       REGISTRATION NUMBER:  33,977
;       REFERENCE/DOCKET NUMBER:  110.00010120
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  612-305-1217
;       TELEFAX:  612-305-1228
;   INFORMATION FOR SEQ ID NO:  6:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  35 amino acids
;       TYPE:  amino acid
;       STRANDEDNESS:  not relevant
;       TOPOLOGY:  not relevant
;     MOLECULE TYPE:  peptide
US-08-304-585-6

  Query Match             85.4%;  Score 35;  DB 1;  Length 35;
  Best Local Similarity   100.0%;  Pred. No. 1.6;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 62
US-08-612-785B-16
; Sequence 16, Application US/08612785B
; Patent No. 5854204
;  GENERAL INFORMATION:
;     APPLICANT:  Findeis, Mark A. et al.
;     TITLE OF INVENTION:  Ab Peptides that Modulate b-Amyloid
;     TITLE OF INVENTION:  Aggregation
;     NUMBER OF SEQUENCES:  40
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  LAHIVE & COCKFIELD
;       STREET:  28 State Street, Suite 510
;       CITY:  Boston
;       STATE:  Massachusetts
;       COUNTRY:  USA
;       ZIP:  02109-1875
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
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```
;       APPLICATION NUMBER:  US/08/612,785B
;       FILING DATE:  Herewith
;       CLASSIFICATION:  514
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  USSN 08/404,831
;       FILING DATE:  14-MAR-1995
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  USSN 08/475,579
;       FILING DATE:  07-JUN-1995
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  USSN 08/548,998
;       FILING DATE:  27-OCT-1995
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  DeConti, Giulio A.
;       REGISTRATION NUMBER:  31,503
;       REFERENCE/DOCKET NUMBER:  PPI-002CP3
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (617)227-7400
;       TELEFAX:  (617)742-4214
;   INFORMATION FOR SEQ ID NO:  16:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  35 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  peptide
;     FRAGMENT TYPE:  internal
US-08-612-785B-16

  Query Match             85.4%;  Score 35;  DB 2;  Length 35;
  Best Local Similarity   100.0%;  Pred. No. 1.6;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         12 LVFFAED 18


RESULT 63
US-08-612-785B-36
; Sequence 36, Application US/08612785B
; Patent No. 5854204
;  GENERAL INFORMATION:
;     APPLICANT:  Findeis, Mark A. et al.
;     TITLE OF INVENTION:  Ab Peptides that Modulate b-Amyloid
;     TITLE OF INVENTION:  Aggregation
;     NUMBER OF SEQUENCES:  40
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  LAHIVE & COCKFIELD
;       STREET:  28 State Street, Suite 510
;       CITY:  Boston
;       STATE:  Massachusetts
;       COUNTRY:  USA
;       ZIP:  02109-1875
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
```

```
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/612,785B
;       FILING DATE:  Herewith
;       CLASSIFICATION:  514
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  USSN 08/404,831
;       FILING DATE:  14-MAR-1995
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  USSN 08/475,579
;       FILING DATE:  07-JUN-1995
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  USSN 08/548,998
;       FILING DATE:  27-OCT-1995
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  DeConti, Giulio A.
;       REGISTRATION NUMBER:  31,503
;       REFERENCE/DOCKET NUMBER:  PPI-002CP3
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (617)227-7400
;       TELEFAX:  (617)742-4214
;   INFORMATION FOR SEQ ID NO:  36:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  35 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  peptide
;     FRAGMENT TYPE:  internal
US-08-612-785B-36

  Query Match             85.4%;  Score 35;  DB 2;  Length 35;
  Best Local Similarity   100.0%;  Pred. No. 1.6;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         12 LVFFAED 18


RESULT 64
US-08-612-785B-38
; Sequence 38, Application US/08612785B
; Patent No. 5854204
;  GENERAL INFORMATION:
;     APPLICANT:  Findeis, Mark A. et al.
;     TITLE OF INVENTION:  Ab Peptides that Modulate b-Amyloid
;     TITLE OF INVENTION:  Aggregation
;     NUMBER OF SEQUENCES:  40
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  LAHIVE & COCKFIELD
;       STREET:  28 State Street, Suite 510
;       CITY:  Boston
;       STATE:  Massachusetts
;       COUNTRY:  USA
;       ZIP:  02109-1875
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
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;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/612,785B
;       FILING DATE:  Herewith
;       CLASSIFICATION:  514
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  USSN 08/404,831
;       FILING DATE:  14-MAR-1995
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  USSN 08/475,579
;       FILING DATE:  07-JUN-1995
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  USSN 08/548,998
;       FILING DATE:  27-OCT-1995
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  DeConti, Giulio A.
;       REGISTRATION NUMBER:  31,503
;       REFERENCE/DOCKET NUMBER:  PPI-002CP3
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (617)227-7400
;       TELEFAX:  (617)742-4214
;   INFORMATION FOR SEQ ID NO:  38:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  35 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  peptide
;     FRAGMENT TYPE:  internal
US-08-612-785B-38

  Query Match             85.4%;  Score 35;  DB 2;  Length 35;
  Best Local Similarity   100.0%;  Pred. No. 1.6;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 65
US-08-612-785B-40
; Sequence 40, Application US/08612785B
; Patent No. 5854204
;  GENERAL INFORMATION:
;     APPLICANT:  Findeis, Mark A. et al.
;     TITLE OF INVENTION:  Ab Peptides that Modulate b-Amyloid
;     TITLE OF INVENTION:  Aggregation
;     NUMBER OF SEQUENCES:  40
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  LAHIVE & COCKFIELD
;       STREET:  28 State Street, Suite 510
;       CITY:  Boston
;       STATE:  Massachusetts
;       COUNTRY:  USA
;       ZIP:  02109-1875
```

```
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/612,785B
;       FILING DATE:  Herewith
;       CLASSIFICATION:  514
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  USSN 08/404,831
;       FILING DATE:  14-MAR-1995
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  USSN 08/475,579
;       FILING DATE:  07-JUN-1995
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  USSN 08/548,998
;       FILING DATE:  27-OCT-1995
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  DeConti, Giulio A.
;       REGISTRATION NUMBER:  31,503
;       REFERENCE/DOCKET NUMBER:  PPI-002CP3
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (617)227-7400
;       TELEFAX:  (617)742-4214
;   INFORMATION FOR SEQ ID NO:  40:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  35 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  peptide
;     FRAGMENT TYPE:  internal
US-08-612-785B-40

  Query Match             85.4%;  Score 35;  DB 2;  Length 35;
  Best Local Similarity   100.0%;  Pred. No. 1.6;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         12 LVFFAED 18


RESULT 66
US-08-617-267C-16
; Sequence 16, Application US/08617267C
; Patent No. 6319498
;  GENERAL INFORMATION:
;     APPLICANT:  Findeis, Mark A. et al.
;     TITLE OF INVENTION:  Modulators of Amyloid Aggregation
;     NUMBER OF SEQUENCES:  45
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  LAHIVE & COCKFIELD, LLP
;       STREET:  28 State Street
;       CITY:  Boston
;       STATE:  Massachusetts
;       COUNTRY:  USA
```

```
;       ZIP:  02109-1875
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/617,267C
;       FILING DATE:  14-MAR-1996
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  USSN 08/404,831
;       FILING DATE:  14-MAR-1995
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  USSN 08/475,579
;       FILING DATE:  07-JUN-1995
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  USSN 08/548,998
;       FILING DATE:  27-OCT-1995
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  DeConti, Giulio A.
;       REGISTRATION NUMBER:  31,503
;       REFERENCE/DOCKET NUMBER:  PPI-002CP2
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (617)227-7400
;       TELEFAX:  (617)227-5941
;   INFORMATION FOR SEQ ID NO:  16:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  35 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  peptide
;     FRAGMENT TYPE:  internal
US-08-617-267C-16

  Query Match             85.4%;  Score 35;  DB 4;  Length 35;
  Best Local Similarity   100.0%;  Pred. No. 1.6;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         12 LVFFAED 18


RESULT 67
US-08-609-090-6
; Sequence 6, Application US/08609090
; Patent No. 5840838
;  GENERAL INFORMATION:
;     APPLICANT:  HENSLEY, Kenneth
;     APPLICANT:  BUTTERFIELD, D. A.
;     APPLICANT:  CARNEY, John M.
;     APPLICANT:  AKSENOV, Michael
;     TITLE OF INVENTION:  A PROCESS FOR ENHANCING THE ACTIVITY OF
;     TITLE OF INVENTION:  AN OLIGOPEPTIDE OR POLYPEPTIDES
;     NUMBER OF SEQUENCES:  11
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  LOWE PRICE LEBLANC & BECKER
```

```
;       STREET:  99 Canal Center Plaza, Suite 300
;       CITY:  Alexandria
;       STATE:  Virginia
;       COUNTRY:  USA
;       ZIP:  22314
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.30
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/609,090
;       FILING DATE:  29-FEB-1996
;       CLASSIFICATION:  530
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Kraus, Eric J.
;       REGISTRATION NUMBER:  36,190
;       REFERENCE/DOCKET NUMBER:  434-059
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  703-684-1111
;       TELEFAX:  703-684-1124
;   INFORMATION FOR SEQ ID NO:  6:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  36 amino acids
;       TYPE:  amino acid
;       STRANDEDNESS:  single
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  peptide
US-08-609-090-6

  Query Match             85.4%;  Score 35;  DB 2;  Length 36;
  Best Local Similarity   100.0%;  Pred. No. 1.6;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 68
US-08-302-808-1
; Sequence 1, Application US/08302808
; Patent No. 5750349
;  GENERAL INFORMATION:
;     APPLICANT:  SUZUKI, No. 5750349uhiro
;     APPLICANT:  ODAKA, Asano
;     APPLICANT:  KITADA, Chieko
;     TITLE OF INVENTION:  ANTIBODIES TO B-AMYLOIDS OR THEIR
;     TITLE OF INVENTION:  DERIVATIVES AND USE THEREOF
;     NUMBER OF SEQUENCES:  14
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  DIKE, BRONSTEIN, ROBERTS & CUSHMAN
;       STREET:  130 WATER STREET
;       CITY:  BOSTON
;       STATE:  MA
;       COUNTRY:  USA
;       ZIP:  02019
```

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;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Diskette
;       COMPUTER:  IBM Compatible
;       OPERATING SYSTEM:  DOS
;       SOFTWARE:  FastSEQ Version 1.5
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/302,808
;       FILING DATE:  15-SEP-1994
;       CLASSIFICATION:  435
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  PCT/JP94/00089
;       FILING DATE:  24-JAN-1994
;       APPLICATION NUMBER:  010132/1993
;       FILING DATE:  25-JAN-1993
;       APPLICATION NUMBER:  019035/1993
;       FILING DATE:  05-FEB-1993
;       APPLICATION NUMBER:  286985/1993
;       FILING DATE:  16-NOV-1993
;       APPLICATION NUMBER:  334773/1993
;       FILING DATE:  28-DEC-1993
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  DAVID, RESNICK S
;       REGISTRATION NUMBER:  34,235
;       REFERENCE/DOCKET NUMBER:  44631
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  617-523-3400
;       TELEFAX:  617-523-6440
;       TELEX:  200291 STRE
;   INFORMATION FOR SEQ ID NO:  1:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  38 amino acids
;       TYPE:  amino acid
;       STRANDEDNESS:  single
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  peptide
;     HYPOTHETICAL:  NO
;     ANTI-SENSE:  NO
;     FRAGMENT TYPE:  N-terminal
;     ORIGINAL SOURCE:
US-08-302-808-1

  Query Match             85.4%;  Score 35;  DB 1;  Length 38;
  Best Local Similarity   100.0%;  Pred. No. 1.7;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 69
US-07-737-371E-68
; Sequence 68, Application US/07737371E
; Patent No. 5876948
;  GENERAL INFORMATION:
;     APPLICANT:  Yankner, Bruce A.
;     TITLE OF INVENTION:  SCREENING METHODS TO IDENTIFY
```

```
;    TITLE OF INVENTION:  NEUROTOXIN INHIBITORS (AS AMENDED)
;    NUMBER OF SEQUENCES:  77
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Fish & Richardson, P.C.
;      STREET:  225 Franklin Street
;      CITY:  Boston
;      STATE:  MA
;      COUNTRY:  US
;      ZIP:  02110-2804
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  Windows95
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/737,371E
;      FILING DATE:  29-JUL-1991
;      CLASSIFICATION:  536
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/559,172
;      FILING DATE:  27-JUL-1990
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Freeman, John W.
;      REGISTRATION NUMBER:  29,066
;      REFERENCE/DOCKET NUMBER:  00108/028002
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617-542-5070
;      TELEFAX:  617-542-8906
;      TELEX:  200154
;  INFORMATION FOR SEQ ID NO:  68:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  38 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-07-737-371E-68

  Query Match             85.4%;  Score 35;  DB 2;  Length 38;
  Best Local Similarity   100.0%;  Pred. No. 1.7;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 70
US-08-986-948-1
; Sequence 1, Application US/08986948
; Patent No. 5955317
;  GENERAL INFORMATION:
;    APPLICANT:  SUZUKI, No. 5955317uhiro
;    APPLICANT:  ODAKA, Asano
;    APPLICANT:  KITADA, Chieko
;    TITLE OF INVENTION:  ANTIBODIES TO B-AMYLOIDS OR THEIR
;    TITLE OF INVENTION:  DERIVATIVES AND USE THEREOF
;    NUMBER OF SEQUENCES:  14
```

```
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  DIKE, BRONSTEIN, ROBERTS & CUSHMAN
;       STREET:  130 WATER STREET
;       CITY:  BOSTON
;       STATE:  MA
;       COUNTRY:  USA
;       ZIP:  02019
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Diskette
;       COMPUTER:  IBM Compatible
;       OPERATING SYSTEM:  DOS
;       SOFTWARE:  FastSEQ Version 1.5
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/986,948
;       FILING DATE:
;       CLASSIFICATION:
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  08/302,808
;       FILING DATE:  15-SEP-1994
;       APPLICATION NUMBER:  PCT/JP94/00089
;       FILING DATE:  24-JAN-1994
;       APPLICATION NUMBER:  010132/1993
;       FILING DATE:  25-JAN-1993
;       APPLICATION NUMBER:  019035/1993
;       FILING DATE:  05-FEB-1993
;       APPLICATION NUMBER:  286985/1993
;       FILING DATE:  16-NOV-1993
;       APPLICATION NUMBER:  334773/1993
;       FILING DATE:  28-DEC-1993
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  DAVID, RESNICK S
;       REGISTRATION NUMBER:  34,235
;       REFERENCE/DOCKET NUMBER:  44631
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  617-523-3400
;       TELEFAX:  617-523-6440
;       TELEX:  200291 STRE
;   INFORMATION FOR SEQ ID NO:  1:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  38 amino acids
;       TYPE:  amino acid
;       STRANDEDNESS:  single
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  peptide
;     HYPOTHETICAL:  NO
;     ANTI-SENSE:  NO
;     FRAGMENT TYPE:  N-terminal
;     ORIGINAL SOURCE:
US-08-986-948-1

  Query Match             85.4%;  Score 35;  DB 2;  Length 38;
  Best Local Similarity   100.0%;  Pred. No. 1.7;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23
```

```
RESULT 71
US-08-304-585-5
; Sequence 5, Application US/08304585
; Patent No. 5721106
;  GENERAL INFORMATION:
;    APPLICANT:  Maggio, John E.
;    APPLICANT:  Mantyh, Patrick W.
;    TITLE OF INVENTION:  LABELLED BETA-AMYLOID PEPTIDE AND
;    TITLE OF INVENTION:  METHODS FOR USE IN DETECTING ALZHEIMER'S DISEASE
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Mueting, Raasch, Gebhardt & Schwappach, P.A.
;      STREET:  P.O. Box 581415
;      CITY:  Minneapolis
;      STATE:  MN
;      COUNTRY:  USA
;      ZIP:  55458-1415
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/304,585
;      FILING DATE:  12-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Mueting, Ann M.
;      REGISTRATION NUMBER:  33,977
;      REFERENCE/DOCKET NUMBER:  110.00010120
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  612-305-1217
;      TELEFAX:  612-305-1228
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  39 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  peptide
US-08-304-585-5

  Query Match             85.4%;  Score 35;  DB 1;  Length 39;
  Best Local Similarity   100.0%;  Pred. No. 1.8;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         16 LVFFAED 22


RESULT 72
US-08-302-808-2
; Sequence 2, Application US/08302808
; Patent No. 5750349
```

; GENERAL INFORMATION:
; APPLICANT: SUZUKI, No. 5750349uhiro
; APPLICANT: ODAKA, Asano
; APPLICANT: KITADA, Chieko
; TITLE OF INVENTION: ANTIBODIES TO B-AMYLOIDS OR THEIR
; TITLE OF INVENTION: DERIVATIVES AND USE THEREOF
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSHMAN
; STREET: 130 WATER STREET
; CITY: BOSTON
; STATE: MA
; COUNTRY: USA
; ZIP: 02019
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/302,808
; FILING DATE: 15-SEP-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/JP94/00089
; FILING DATE: 24-JAN-1994
; APPLICATION NUMBER: 010132/1993
; FILING DATE: 25-JAN-1993
; APPLICATION NUMBER: 019035/1993
; FILING DATE: 05-FEB-1993
; APPLICATION NUMBER: 286985/1993
; FILING DATE: 16-NOV-1993
; APPLICATION NUMBER: 334773/1993
; FILING DATE: 28-DEC-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: DAVID, RESNICK S
; REGISTRATION NUMBER: 34,235
; REFERENCE/DOCKET NUMBER: 44631
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-523-3400
; TELEFAX: 617-523-6440
; TELEX: 200291 STRE
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 39 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: N-terminal
; ORIGINAL SOURCE:
US-08-302-808-2

Query Match 85.4%; Score 35; DB 1; Length 39;
Best Local Similarity 100.0%; Pred. No. 1.8;

```
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 73
US-08-609-090-7
; Sequence 7, Application US/08609090
; Patent No. 5840838
;  GENERAL INFORMATION:
;    APPLICANT:  HENSLEY, Kenneth
;    APPLICANT:  BUTTERFIELD, D. A.
;    APPLICANT:  CARNEY, John M.
;    APPLICANT:  AKSENOV, Michael
;    TITLE OF INVENTION:  A PROCESS FOR ENHANCING THE ACTIVITY OF
;    TITLE OF INVENTION:  AN OLIGOPEPTIDE OR POLYPEPTIDES
;    NUMBER OF SEQUENCES:  11
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LOWE PRICE LEBLANC & BECKER
;      STREET:  99 Canal Center Plaza, Suite 300
;      CITY:  Alexandria
;      STATE:  Virginia
;      COUNTRY:  USA
;      ZIP:  22314
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/609,090
;      FILING DATE:  29-FEB-1996
;      CLASSIFICATION:  530
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Kraus, Eric J.
;      REGISTRATION NUMBER:  36,190
;      REFERENCE/DOCKET NUMBER:  434-059
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  703-684-1111
;      TELEFAX:  703-684-1124
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  39 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-609-090-7

  Query Match             85.4%;  Score 35;  DB 2;  Length 39;
  Best Local Similarity   100.0%;  Pred. No. 1.8;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
```

```
Db          17 LVFFAED 23


RESULT 74
US-08-682-245A-1
; Sequence 1, Application US/08682245A
; Patent No. 5919631
;  GENERAL INFORMATION:
;    APPLICANT:  GOYAL, SHEFALI
;    APPLICANT:  PAUL, JOSEPH W
;    APPLICANT:  RIEDEL, NORBERT G
;    APPLICANT:  SAHASRABUDHE, SUDHIR
;    TITLE OF INVENTION:  A METHOD OF DETERMINING THE DEGREE OF
;    TITLE OF INVENTION:  AGGREGATION OF THE BA4 PEPTIDE
;    NUMBER OF SEQUENCES:  5
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  HOECHST MARION ROUSSEL, INC.
;      STREET:  2110 E. GALBRAITH RD., P.O. BOX 156300
;      CITY:  CINCINNATI
;      STATE:  OHIO
;      COUNTRY:  U.S.A.
;      ZIP:  45215-6300
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/682,245A
;      FILING DATE:  17-JUL-1996
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 60/039,414
;      FILING DATE:  16-AUG-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LENTZ, NELSEN L
;      REGISTRATION NUMBER:  38,537
;      REFERENCE/DOCKET NUMBER:  HR-1257A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  513-948-7369
;      TELEFAX:  513-948-7961 OR 4681
;      TELEX:  214320
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  39 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-682-245A-1

  Query Match             85.4%;  Score 35;  DB 2;  Length 39;
  Best Local Similarity   100.0%;  Pred. No. 1.8;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
```

Db 17 LVFFAED 23

RESULT 75
US-08-986-948-2
; Sequence 2, Application US/08986948
; Patent No. 5955317
; GENERAL INFORMATION:
; APPLICANT: SUZUKI, No. 5955317uhiro
; APPLICANT: ODAKA, Asano
; APPLICANT: KITADA, Chieko
; TITLE OF INVENTION: ANTIBODIES TO B-AMYLOIDS OR THEIR
; TITLE OF INVENTION: DERIVATIVES AND USE THEREOF
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSHMAN
; STREET: 130 WATER STREET
; CITY: BOSTON
; STATE: MA
; COUNTRY: USA
; ZIP: 02019
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/986,948
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/302,808
; FILING DATE: 15-SEP-1994
; APPLICATION NUMBER: PCT/JP94/00089
; FILING DATE: 24-JAN-1994
; APPLICATION NUMBER: 010132/1993
; FILING DATE: 25-JAN-1993
; APPLICATION NUMBER: 019035/1993
; FILING DATE: 05-FEB-1993
; APPLICATION NUMBER: 286985/1993
; FILING DATE: 16-NOV-1993
; APPLICATION NUMBER: 334773/1993
; FILING DATE: 28-DEC-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: DAVID, RESNICK S
; REGISTRATION NUMBER: 34,235
; REFERENCE/DOCKET NUMBER: 44631
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-523-3400
; TELEFAX: 617-523-6440
; TELEX: 200291 STRE
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 39 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear

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;     MOLECULE TYPE:  peptide
;     HYPOTHETICAL:  NO
;     ANTI-SENSE:  NO
;     FRAGMENT TYPE:  N-terminal
;     ORIGINAL SOURCE:
US-08-986-948-2

  Query Match             85.4%;  Score 35;  DB 2;  Length 39;
  Best Local Similarity   100.0%;  Pred. No. 1.8;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 76
US-07-744-767A-1
; Sequence 1, Application US/07744767A
; Patent No. 5434050
;  GENERAL INFORMATION:
;     APPLICANT:  Maggio, John E.
;     APPLICANT:  Mantyh, Patrick W.
;     TITLE OF INVENTION:  Labelled  -Amyloid Peptide and Methods
;     TITLE OF INVENTION:  for Use in Detecting Alzheimer's Disease
;     NUMBER OF SEQUENCES:  3
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  Schwegman, Lundberg & Woessner, P.A.
;       STREET:  3500 IDS Center
;       CITY:  Minneapolis
;       STATE:  MN
;       COUNTRY:  USA
;       ZIP:  55402
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/07/744,767A
;       FILING DATE:  13-AUG-1991
;       CLASSIFICATION:  435
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Mueting, Ann M.
;       REGISTRATION NUMBER:  33,977
;       REFERENCE/DOCKET NUMBER:  600.226-US-01
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  612-339-0331
;       TELEFAX:  612-339-3061
;  INFORMATION FOR SEQ ID NO:  1:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  40 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  peptide
US-07-744-767A-1
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  Query Match             85.4%;  Score 35;  DB 1;  Length 40;
  Best Local Similarity   100.0%;  Pred. No. 1.8;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 77
US-08-235-400-2
; Sequence 2, Application US/08235400
; Patent No. 5552426
;  GENERAL INFORMATION:
;    APPLICANT:  Lunn, William H.
;    APPLICANT:  Monn, James A.
;    APPLICANT:  Zimmerman, Dennis M.
;    TITLE OF INVENTION:  METHODS FOR TREATING A PHYSIOLOGICAL
;    TITLE OF INVENTION:  DISORDER ASSOCIATED WITH BETA AMYLOID PEPTIDE
;    NUMBER OF SEQUENCES:  2
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Eli Lilly and Company
;      STREET:  Lilly Corporate Center/1104
;      CITY:  Indianapolis
;      STATE:  Indiana
;      COUNTRY:  United States of America
;      ZIP:  46285
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/235,400
;      FILING DATE:
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Gaylo, Paul J.
;      REGISTRATION NUMBER:  36,808
;      REFERENCE/DOCKET NUMBER:  X-9507
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (317) 276-0756
;      TELEFAX:  (317) 276-3861
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  40 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-235-400-2

  Query Match             85.4%;  Score 35;  DB 1;  Length 40;
  Best Local Similarity   100.0%;  Pred. No. 1.8;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
```

```
                  |||||||
Db          17 LVFFAED 23


RESULT 78
US-08-476-464A-2
; Sequence 2, Application US/08476464A
; Patent No. 5707821
;  GENERAL INFORMATION:
;    APPLICANT:  RYDEL, RUSSELL E.
;    APPLICANT:  DAPPEN, MICHAEL S.
;    TITLE OF INVENTION:  THERAPEUTIC INHIBITION OF PHOSPHOLIPASE
;    TITLE OF INVENTION:  A2 IN A-BETA PEPTIDE-MEDIATED NEURODEGENERATIVE
DISEASE
;    NUMBER OF SEQUENCES:  2
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  TOWNSEND & TOWNSEND & CREW LLP
;      STREET:  TWO EMBARCADERO CENTER, 8TH FLOOR
;      CITY:  SAN FRANCISCO
;      STATE:  CALIFORNIA
;      COUNTRY:  U.S.A.
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/476,464A
;      FILING DATE:  07-JUN-1995
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  STORELLA, JOHN R.
;      REGISTRATION NUMBER:  32,944
;      REFERENCE/DOCKET NUMBER:  15270-002300
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415)326-2400
;      TELEFAX:  (415)576-0300
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  40 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-476-464A-2

  Query Match             85.4%;  Score 35;  DB 1;  Length 40;
  Best Local Similarity   100.0%;  Pred. No. 1.8;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy           1 LVFFAED 7
                 |||||||
Db          17 LVFFAED 23


RESULT 79
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US-08-304-585-1
; Sequence 1, Application US/08304585
; Patent No. 5721106
;  GENERAL INFORMATION:
;    APPLICANT:  Maggio, John E.
;    APPLICANT:  Mantyh, Patrick W.
;    TITLE OF INVENTION:  LABELLED BETA-AMYLOID PEPTIDE AND
;    TITLE OF INVENTION:  METHODS FOR USE IN DETECTING ALZHEIMER'S DISEASE
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Mueting, Raasch, Gebhardt & Schwappach, P.A.
;      STREET:  P.O. Box 581415
;      CITY:  Minneapolis
;      STATE:  MN
;      COUNTRY:  USA
;      ZIP:  55458-1415
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/304,585
;      FILING DATE:  12-SEP-1994
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Mueting, Ann M.
;      REGISTRATION NUMBER:  33,977
;      REFERENCE/DOCKET NUMBER:  110.00010120
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  612-305-1217
;      TELEFAX:  612-305-1228
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  40 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  not relevant
;    MOLECULE TYPE:  peptide
US-08-304-585-1

  Query Match             85.4%;  Score 35;  DB 1;  Length 40;
  Best Local Similarity   100.0%;  Pred. No. 1.8;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 80
US-08-302-808-3
; Sequence 3, Application US/08302808
; Patent No. 5750349
;  GENERAL INFORMATION:
;    APPLICANT:  SUZUKI, No. 5750349uhiro
;    APPLICANT:  ODAKA, Asano
```

```
;    APPLICANT:  KITADA, Chieko
;    TITLE OF INVENTION:  ANTIBODIES TO B-AMYLOIDS OR THEIR
;    TITLE OF INVENTION:  DERIVATIVES AND USE THEREOF
;    NUMBER OF SEQUENCES:  14
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  DIKE, BRONSTEIN, ROBERTS & CUSHMAN
;      STREET:  130 WATER STREET
;      CITY:  BOSTON
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02019
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ Version 1.5
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/302,808
;      FILING DATE:  15-SEP-1994
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/JP94/00089
;      FILING DATE:  24-JAN-1994
;      APPLICATION NUMBER:  010132/1993
;      FILING DATE:  25-JAN-1993
;      APPLICATION NUMBER:  019035/1993
;      FILING DATE:  05-FEB-1993
;      APPLICATION NUMBER:  286985/1993
;      FILING DATE:  16-NOV-1993
;      APPLICATION NUMBER:  334773/1993
;      FILING DATE:  28-DEC-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  DAVID, RESNICK S
;      REGISTRATION NUMBER:  34,235
;      REFERENCE/DOCKET NUMBER:  44631
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617-523-3400
;      TELEFAX:  617-523-6440
;      TELEX:  200291 STRE
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  40 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
;    FRAGMENT TYPE:  N-terminal
;    ORIGINAL SOURCE:
US-08-302-808-3

  Query Match             85.4%;  Score 35;  DB 1;  Length 40;
  Best Local Similarity   100.0%;  Pred. No. 1.8;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
```

```
                  |||||||
Db          17 LVFFAED 23


RESULT 81
US-08-433-734-1
; Sequence 1, Application US/08433734
; Patent No. 5837473
;  GENERAL INFORMATION:
;    APPLICANT:  Maggio, John E.
;    APPLICANT:  Mantyh, Patrick W.
;    TITLE OF INVENTION:  Labelled  -Amyloid Peptide and Methods
;    TITLE OF INVENTION:  for Use in Detecting Alzheimer's Disease
;    NUMBER OF SEQUENCES:  3
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Mueting, Raasch, Gebhardt & Schwappach, P.A.
;      STREET:  P.O. Box 581415
;      CITY:  Minneapolis
;      STATE:  MN
;      COUNTRY:  USA
;      ZIP:  55458-1415
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/433,734
;      FILING DATE:  03-MAY-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Mueting, Ann M.
;      REGISTRATION NUMBER:  33,977
;      REFERENCE/DOCKET NUMBER:  110.00010102
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  612-305-1220
;      TELEFAX:  612-305-1228
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  40 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-433-734-1

  Query Match             85.4%;  Score 35;  DB 2;  Length 40;
  Best Local Similarity   100.0%;  Pred. No. 1.8;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy           1 LVFFAED 7
                 |||||||
Db          17 LVFFAED 23


RESULT 82
US-08-609-090-8
; Sequence 8, Application US/08609090
```

; Patent No. 5840838
; GENERAL INFORMATION:
; APPLICANT: HENSLEY, Kenneth
; APPLICANT: BUTTERFIELD, D. A.
; APPLICANT: CARNEY, John M.
; APPLICANT: AKSENOV, Michael
; TITLE OF INVENTION: A PROCESS FOR ENHANCING THE ACTIVITY OF
; TITLE OF INVENTION: AN OLIGOPEPTIDE OR POLYPEPTIDES
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LOWE PRICE LEBLANC & BECKER
; STREET: 99 Canal Center Plaza, Suite 300
; CITY: Alexandria
; STATE: Virginia
; COUNTRY: USA
; ZIP: 22314
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/609,090
; FILING DATE: 29-FEB-1996
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Kraus, Eric J.
; REGISTRATION NUMBER: 36,190
; REFERENCE/DOCKET NUMBER: 434-059
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-684-1111
; TELEFAX: 703-684-1124
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 40 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-609-090-8

Query Match 85.4%; Score 35; DB 2; Length 40;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23
```

RESULT 83
US-07-737-371E-69
; Sequence 69, Application US/07737371E
; Patent No. 5876948
; GENERAL INFORMATION:
; APPLICANT: Yankner, Bruce A.
; TITLE OF INVENTION: SCREENING METHODS TO IDENTIFY

```
;    TITLE OF INVENTION:  NEUROTOXIN INHIBITORS (AS AMENDED)
;    NUMBER OF SEQUENCES:  77
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Fish & Richardson, P.C.
;      STREET:  225 Franklin Street
;      CITY:  Boston
;      STATE:  MA
;      COUNTRY:  US
;      ZIP:  02110-2804
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  Windows95
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/737,371E
;      FILING DATE:  29-JUL-1991
;      CLASSIFICATION:  536
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/559,172
;      FILING DATE:  27-JUL-1990
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Freeman, John W.
;      REGISTRATION NUMBER:  29,066
;      REFERENCE/DOCKET NUMBER:  00108/028002
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617-542-5070
;      TELEFAX:  617-542-8906
;      TELEX:  200154
;  INFORMATION FOR SEQ ID NO:  69:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  40 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-07-737-371E-69

  Query Match             85.4%;  Score 35;  DB 2;  Length 40;
  Best Local Similarity   100.0%;  Pred. No. 1.8;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 84
US-08-682-245A-2
; Sequence 2, Application US/08682245A
; Patent No. 5919631
;  GENERAL INFORMATION:
;    APPLICANT:  GOYAL, SHEFALI
;    APPLICANT:  PAUL, JOSEPH W
;    APPLICANT:  RIEDEL, NORBERT G
;    APPLICANT:  SAHASRABUDHE, SUDHIR
;    TITLE OF INVENTION:  A METHOD OF DETERMINING THE DEGREE OF
;    TITLE OF INVENTION:  AGGREGATION OF THE BA4 PEPTIDE
```

```
;    NUMBER OF SEQUENCES:  5
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  HOECHST MARION ROUSSEL, INC.
;      STREET:  2110 E. GALBRAITH RD., P.O. BOX 156300
;      CITY:  CINCINNATI
;      STATE:  OHIO
;      COUNTRY:  U.S.A.
;      ZIP:  45215-6300
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/682,245A
;      FILING DATE:  17-JUL-1996
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 60/039,414
;      FILING DATE:  16-AUG-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  LENTZ, NELSEN L
;      REGISTRATION NUMBER:  38,537
;      REFERENCE/DOCKET NUMBER:  HR-1257A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  513-948-7369
;      TELEFAX:  513-948-7961 OR 4681
;      TELEX:  214320
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  40 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-682-245A-2

  Query Match             85.4%;  Score 35;  DB 2;  Length 40;
  Best Local Similarity   100.0%;  Pred. No. 1.8;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 85
US-08-986-948-3
; Sequence 3, Application US/08986948
; Patent No. 5955317
;  GENERAL INFORMATION:
;    APPLICANT:  SUZUKI, No. 5955317uhiro
;    APPLICANT:  ODAKA, Asano
;    APPLICANT:  KITADA, Chieko
;    TITLE OF INVENTION:  ANTIBODIES TO B-AMYLOIDS OR THEIR
;    TITLE OF INVENTION:  DERIVATIVES AND USE THEREOF
;    NUMBER OF SEQUENCES:  14
```

```
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  DIKE, BRONSTEIN, ROBERTS & CUSHMAN
;       STREET:  130 WATER STREET
;       CITY:  BOSTON
;       STATE:  MA
;       COUNTRY:  USA
;       ZIP:  02019
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Diskette
;       COMPUTER:  IBM Compatible
;       OPERATING SYSTEM:  DOS
;       SOFTWARE:  FastSEQ Version 1.5
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/986,948
;       FILING DATE:
;       CLASSIFICATION:
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  08/302,808
;       FILING DATE:  15-SEP-1994
;       APPLICATION NUMBER:  PCT/JP94/00089
;       FILING DATE:  24-JAN-1994
;       APPLICATION NUMBER:  010132/1993
;       FILING DATE:  25-JAN-1993
;       APPLICATION NUMBER:  019035/1993
;       FILING DATE:  05-FEB-1993
;       APPLICATION NUMBER:  286985/1993
;       FILING DATE:  16-NOV-1993
;       APPLICATION NUMBER:  334773/1993
;       FILING DATE:  28-DEC-1993
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  DAVID, RESNICK S
;       REGISTRATION NUMBER:  34,235
;       REFERENCE/DOCKET NUMBER:  44631
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  617-523-3400
;       TELEFAX:  617-523-6440
;       TELEX:  200291 STRE
;   INFORMATION FOR SEQ ID NO:  3:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  40 amino acids
;       TYPE:  amino acid
;       STRANDEDNESS:  single
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  peptide
;     HYPOTHETICAL:  NO
;     ANTI-SENSE:  NO
;     FRAGMENT TYPE:  N-terminal
;     ORIGINAL SOURCE:
US-08-986-948-3

  Query Match             85.4%;  Score 35;  DB 2;  Length 40;
  Best Local Similarity   100.0%;  Pred. No. 1.8;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23
```

```
RESULT 86
US-08-461-216-1
; Sequence 1, Application US/08461216
; Patent No. 5958883
;  GENERAL INFORMATION:
;    APPLICANT:  Snow, A.D.
;    TITLE OF INVENTION:  ANIMAL MODELS OF HUMAN AMYLOIDOSES
;    NUMBER OF SEQUENCES:  8
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Christensen, O'Connor, Johnson and Kindness
;      STREET:  1420 Fifth Avenue, Suite 2800
;      CITY:  Seattle
;      STATE:  Washington
;      COUNTRY:  USA
;      ZIP:  98101-2347
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette-5.25 inch, 1.2Mb storage
;      COMPUTER:  IBM PC/386 Compatible
;      OPERATING SYSTEM:  MS-DOS 4.01
;      SOFTWARE:  Word for Windows-t
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/461,216
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/969,734
;      FILING DATE:  October 23, 1992
;      APPLICATION NUMBER:  07/950,417
;      FILING DATE:  September 23, 1992
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Broderick, Thomas F.
;      REGISTRATION NUMBER:  31,332
;      REFERENCE/DOCKET NUMBER:  UOFW-1-6707
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  1-206-682-8100; 1-206-224-0709 (direct)
;      TELEFAX:  1-206-224-0779
;      TELEX:  4938023
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  40 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;      DESCRIPTION:  {SYMBOL 98 \f "Symbol"}/A4(1-40);
;      DESCRIPTION:  FIGURES 23-29
US-08-461-216-1

  Query Match             85.4%;  Score 35;  DB 2;  Length 40;
  Best Local Similarity   100.0%;  Pred. No. 1.8;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23
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```
RESULT 87
US-08-959-148-1
; Sequence 1, Application US/08959148
; Patent No. 6172277
; GENERAL INFORMATION:
;  APPLICANT: Tate, Barbara A.
;  APPLICANT: Majocha, Ronald
;  APPLICANT: Newton, Julie L.
;  TITLE OF INVENTION: NON-TRANSGENIC ANIMAL MODEL OF ALZHEIMER'S DISEASE
;  FILE REFERENCE: 04930/022001
;  CURRENT APPLICATION NUMBER: US/08/959,148
;  CURRENT FILING DATE: 1997-10-28
;  NUMBER OF SEQ ID NOS: 2
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 1
;   LENGTH: 40
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-08-959-148-1

  Query Match             85.4%;  Score 35;  DB 3;  Length 40;
  Best Local Similarity   100.0%;  Pred. No. 1.8;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 88
US-09-242-724-22
; Sequence 22, Application US/09242724
; Patent No. 6316405
; GENERAL INFORMATION:
;  APPLICANT:  Solomon, Michael E.
;  APPLICANT:  Rich, Daniel H.
;  TITLE OF INVENTION:  Cyclosporin A Conjugates and Uses Therefor
;  FILE REFERENCE:  Cyclosporin Analogs
;  CURRENT APPLICATION NUMBER: US/09/242,724
;  CURRENT FILING DATE:  1999-02-22
;  NUMBER OF SEQ ID NOS:  33
;  SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 22
;   LENGTH: 40
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-242-724-22

  Query Match             85.4%;  Score 35;  DB 4;  Length 40;
  Best Local Similarity   100.0%;  Pred. No. 1.8;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23
```

```
RESULT 89
US-08-723-661B-1
; Sequence 1, Application US/08723661B
; Patent No. 6340783
;   GENERAL INFORMATION:
;        APPLICANT: Alan D Snow
;        TITLE OF INVENTION: Animal Models of Human Amyloidoses
;        NUMBER OF SEQUENCES: 7
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Patrick M. Dwyer
;             STREET: 1818 Westlake Avenue N, Suite 114
;             CITY: Seattle
;             STATE: WA (Washington)
;             COUNTRY: United States of America
;             ZIP: 98109
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Diskette - 3.50 inch, 1.44 Mb storage
;             COMPUTER: IBM PC
;             OPERATING SYSTEM: PC-DOS (Windows 98)
;             SOFTWARE: WordPerfect 5.2
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/08/723,661B
;             FILING DATE: 31-Oct-1996
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 08/461,216
;             FILING DATE: 05-Jun-1995
;             APPLICATION NUMBER: 07/969,734
;             FILING DATE: 23-Oct-1992
;             APPLICATION NUMBER: 07/950,417
;             FILING DATE: 23-Sep-1992
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Dwyer, Patrick M.
;             REGISTRATION NUMBER: 32,411
;             REFERENCE/DOCKET NUMBER: PROTEO.P00C1
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (206) 343-7074
;             TELEFAX: (206) 343-7085
;   INFORMATION FOR SEQ ID NO: 1:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 40 AMINO ACIDS
;             TYPE: AMINO ACID
;             STRANDEDNESS: SINGLE
;             TOPOLOGY: LINEAR
;        MOLECULE TYPE: PEPTIDE
;             DESCRIPTION: /A4 (1-40); FIGURES 23-29
;        SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-08-723-661B-1

  Query Match             85.4%;  Score 35;  DB 4;  Length 40;
  Best Local Similarity   100.0%;  Pred. No. 1.8;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23
```

```
RESULT 90
US-09-062-365-3
; Sequence 3, Application US/09062365
; Patent No. 6465422
; GENERAL INFORMATION:
;  APPLICANT: Schmidt, Ann Marie
;  APPLICANT: Stern, David
;  TITLE OF INVENTION: METHOD FOR INHIBITING TUMOR INVASION OR SPREADING IN A
;  TITLE OF INVENTION: SUBJECT
;  FILE REFERENCE: 55424
;  CURRENT APPLICATION NUMBER: US/09/062,365
;  CURRENT FILING DATE: 1998-04-17
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
;   LENGTH: 40
;   TYPE: PRT
;   ORGANISM: Human
US-09-062-365-3

  Query Match             85.4%;  Score 35;  DB 4;  Length 40;
  Best Local Similarity   100.0%;  Pred. No. 1.8;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 91
US-09-133-866-1
; Sequence 1, Application US/09133866
; Patent No. 6600017
; GENERAL INFORMATION:
;  APPLICANT: Glabe, Charles
;  APPLICANT: Garzon-Rodriguez, William
;  TITLE OF INVENTION: FLUORESCENT AMYLOID ABETA PEPTIDES AND
;  TITLE OF INVENTION: USES THEREOF
;  FILE REFERENCE: 50016/002002
;  CURRENT APPLICATION NUMBER: US/09/133,866
;  CURRENT FILING DATE: 1998-08-13
;  EARLIER APPLICATION NUMBER: 60/055,660
;  EARLIER FILING DATE: 1997-08-14
;  NUMBER OF SEQ ID NOS: 2
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 1
;   LENGTH: 40
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-133-866-1

  Query Match             85.4%;  Score 35;  DB 4;  Length 40;
  Best Local Similarity   100.0%;  Pred. No. 1.8;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
```

```
Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 92
PCT-US92-06700-1
; Sequence 1, Application PC/TUS9206700
;  GENERAL INFORMATION:
;    APPLICANT:  Mantyh, Patrick W.
;    APPLICANT:  Maggio, John E.
;    TITLE OF INVENTION:  Labelled  -Amyloid Peptide
;    TITLE OF INVENTION:  and Alzheimer's Disease Detection
;    NUMBER OF SEQUENCES:  2
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  3100 Norwest Center
;      CITY:  Minneapolis
;      STATE:  Minnesota
;      COUNTRY:  USA
;      ZIP:  55402
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette, 3.5 inch, 720 Kb
;      COMPUTER:  Northgate 386
;      OPERATING SYSTEM:  DOS 4.0
;      SOFTWARE:  WordPerfect  5.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US92/06700
;      FILING DATE:  19920810
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Kowalchyk, Alan W.
;      REGISTRATION NUMBER:  31,535
;      REFERENCE/DOCKET NUMBER:  600.226-WO-01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (612) 332-5300
;      TELEFAX:  (612) 332-9081
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  40 amino acid residues
;      TYPE:  AMINO ACID
;      TOPOLOGY:  Linear
;    MOLECULE TYPE:  Peptide
;    FRAGMENT TYPE:  Internal Fragment
;    ORIGINAL SOURCE:  Synthetically Derived
;    FEATURE:
;      NAME/KEY:  Internal fragment of the  -
;      NAME/KEY:  amyloid peptide precursor
;      LOCATION:  Represents isolated internal
;      LOCATION:  sequence of 40 amino acid residues from
;      LOCATION:  the  -amyloid peptide precursor
PCT-US92-06700-1

  Query Match             85.4%;  Score 35;  DB 5;  Length 40;
  Best Local Similarity   100.0%;  Pred. No. 1.8;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
```

```
Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 93
US-08-302-808-4
; Sequence 4, Application US/08302808
; Patent No. 5750349
;  GENERAL INFORMATION:
;    APPLICANT:  SUZUKI, No. 5750349uhiro
;    APPLICANT:  ODAKA, Asano
;    APPLICANT:  KITADA, Chieko
;    TITLE OF INVENTION:  ANTIBODIES TO B-AMYLOIDS OR THEIR
;    TITLE OF INVENTION:  DERIVATIVES AND USE THEREOF
;    NUMBER OF SEQUENCES:  14
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  DIKE, BRONSTEIN, ROBERTS & CUSHMAN
;      STREET:  130 WATER STREET
;      CITY:  BOSTON
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02019
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ Version 1.5
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/302,808
;      FILING DATE:  15-SEP-1994
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/JP94/00089
;      FILING DATE:  24-JAN-1994
;      APPLICATION NUMBER:  010132/1993
;      FILING DATE:  25-JAN-1993
;      APPLICATION NUMBER:  019035/1993
;      FILING DATE:  05-FEB-1993
;      APPLICATION NUMBER:  286985/1993
;      FILING DATE:  16-NOV-1993
;      APPLICATION NUMBER:  334773/1993
;      FILING DATE:  28-DEC-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  DAVID, RESNICK S
;      REGISTRATION NUMBER:  34,235
;      REFERENCE/DOCKET NUMBER:  44631
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617-523-3400
;      TELEFAX:  617-523-6440
;      TELEX:  200291 STRE
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  41 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
```

```
;     MOLECULE TYPE:  peptide
;     HYPOTHETICAL:  NO
;     ANTI-SENSE:  NO
;     FRAGMENT TYPE:  N-terminal
;     ORIGINAL SOURCE:
US-08-302-808-4

  Query Match             85.4%;  Score 35;  DB 1;  Length 41;
  Best Local Similarity   100.0%;  Pred. No. 1.9;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 94
US-08-682-245A-3
; Sequence 3, Application US/08682245A
; Patent No. 5919631
;  GENERAL INFORMATION:
;     APPLICANT:  GOYAL, SHEFALI
;     APPLICANT:  PAUL, JOSEPH W
;     APPLICANT:  RIEDEL, NORBERT G
;     APPLICANT:  SAHASRABUDHE, SUDHIR
;     TITLE OF INVENTION:  A METHOD OF DETERMINING THE DEGREE OF
;     TITLE OF INVENTION:  AGGREGATION OF THE BA4 PEPTIDE
;     NUMBER OF SEQUENCES:  5
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  HOECHST MARION ROUSSEL, INC.
;       STREET:  2110 E. GALBRAITH RD., P.O. BOX 156300
;       CITY:  CINCINNATI
;       STATE:  OHIO
;       COUNTRY:  U.S.A.
;       ZIP:  45215-6300
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.30
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/682,245A
;       FILING DATE:  17-JUL-1996
;       CLASSIFICATION:  435
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 60/039,414
;       FILING DATE:  16-AUG-1995
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  LENTZ, NELSEN L
;       REGISTRATION NUMBER:  38,537
;       REFERENCE/DOCKET NUMBER:  HR-1257A
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  513-948-7369
;       TELEFAX:  513-948-7961 OR 4681
;       TELEX:  214320
;  INFORMATION FOR SEQ ID NO:  3:
;     SEQUENCE CHARACTERISTICS:
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```
;       LENGTH:  41 amino acids
;       TYPE:  amino acid
;       STRANDEDNESS:
;       TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-682-245A-3

  Query Match             85.4%;  Score 35;  DB 2;  Length 41;
  Best Local Similarity   100.0%;  Pred. No. 1.9;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 95
US-08-986-948-4
; Sequence 4, Application US/08986948
; Patent No. 5955317
;  GENERAL INFORMATION:
;    APPLICANT:  SUZUKI, No. 5955317uhiro
;    APPLICANT:  ODAKA, Asano
;    APPLICANT:  KITADA, Chieko
;    TITLE OF INVENTION:  ANTIBODIES TO B-AMYLOIDS OR THEIR
;    TITLE OF INVENTION:  DERIVATIVES AND USE THEREOF
;    NUMBER OF SEQUENCES:  14
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  DIKE, BRONSTEIN, ROBERTS & CUSHMAN
;      STREET:  130 WATER STREET
;      CITY:  BOSTON
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02019
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ Version 1.5
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/986,948
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/302,808
;      FILING DATE:  15-SEP-1994
;      APPLICATION NUMBER:  PCT/JP94/00089
;      FILING DATE:  24-JAN-1994
;      APPLICATION NUMBER:  010132/1993
;      FILING DATE:  25-JAN-1993
;      APPLICATION NUMBER:  019035/1993
;      FILING DATE:  05-FEB-1993
;      APPLICATION NUMBER:  286985/1993
;      FILING DATE:  16-NOV-1993
;      APPLICATION NUMBER:  334773/1993
;      FILING DATE:  28-DEC-1993
;    ATTORNEY/AGENT INFORMATION:
```

```
;       NAME:  DAVID, RESNICK S
;       REGISTRATION NUMBER:  34,235
;       REFERENCE/DOCKET NUMBER:  44631
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  617-523-3400
;       TELEFAX:  617-523-6440
;       TELEX:  200291 STRE
;   INFORMATION FOR SEQ ID NO:  4:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  41 amino acids
;       TYPE:  amino acid
;       STRANDEDNESS:  single
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  peptide
;     HYPOTHETICAL:  NO
;     ANTI-SENSE:  NO
;     FRAGMENT TYPE:  N-terminal
;     ORIGINAL SOURCE:
US-08-986-948-4

  Query Match             85.4%;  Score 35;  DB 2;  Length 41;
  Best Local Similarity   100.0%;  Pred. No. 1.9;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 96
US-07-744-767A-2
; Sequence 2, Application US/07744767A
; Patent No. 5434050
;  GENERAL INFORMATION:
;    APPLICANT:  Maggio, John E.
;    APPLICANT:  Mantyh, Patrick W.
;    TITLE OF INVENTION:  Labelled  -Amyloid Peptide and Methods
;    TITLE OF INVENTION:  for Use in Detecting Alzheimer's Disease
;    NUMBER OF SEQUENCES:  3
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Schwegman, Lundberg & Woessner, P.A.
;      STREET:  3500 IDS Center
;      CITY:  Minneapolis
;      STATE:  MN
;      COUNTRY:  USA
;      ZIP:  55402
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/744,767A
;      FILING DATE:  13-AUG-1991
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Mueting, Ann M.
```

```
;       REGISTRATION NUMBER:  33,977
;       REFERENCE/DOCKET NUMBER:  600.226-US-01
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  612-339-0331
;       TELEFAX:  612-339-3061
;   INFORMATION FOR SEQ ID NO:  2:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  42 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  peptide
US-07-744-767A-2

  Query Match             85.4%;  Score 35;  DB 1;  Length 42;
  Best Local Similarity   100.0%;  Pred. No. 1.9;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 97
US-08-179-574-1
; Sequence 1, Application US/08179574
; Patent No. 5506097
;  GENERAL INFORMATION:
;     APPLICANT:  Huntington Potter
;     APPLICANT:  Usamah Kayyali
;     TITLE OF INVENTION:  Compounds and Methods for Inhibiting
;     NUMBER OF SEQUENCES:  6
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  Hamilton, Brook, Smith & Reynolds, P.C.
;       STREET:  Two Militia Drive
;       CITY:  Lexington
;       STATE:  Massachusetts
;       COUNTRY:  U.S.A.
;       ZIP:  02173
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/179,574
;       FILING DATE:
;       CLASSIFICATION:  514
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 07/819,361
;       FILING DATE:  13-JAN-1992
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Granahan, Patricia
;       REGISTRATION NUMBER:  32,227
;       REFERENCE/DOCKET NUMBER:  HU90-03A3
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  617-861-6240
;       TELEFAX:  617-861-9540
```

```
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  42 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
US-08-179-574-1

  Query Match             85.4%;  Score 35;  DB 1;  Length 42;
  Best Local Similarity   100.0%;  Pred. No. 1.9;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 98
US-08-271-162-5
; Sequence 5, Application US/08271162
; Patent No. 5523295
;  GENERAL INFORMATION:
;    APPLICANT:  Fasman, Gerald D.
;    TITLE OF INVENTION:  METHOD FOR TREATING AND PREVENTING
;    TITLE OF INVENTION:  ALZHEIMER'S DISEASE
;    NUMBER OF SEQUENCES:  5
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Wolf, Greenfield & Sacks P.C.
;      STREET:  600 Atlantic Avenue
;      CITY:  Boston
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02210
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/271,162
;      FILING DATE:  July   , 1994
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Greer, Helen A.
;      REGISTRATION NUMBER:  36,816
;      REFERENCE/DOCKET NUMBER:  F0437/7000
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  617-720-3500
;      TELEFAX:  617-720-2441
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  42 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
US-08-271-162-5

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  Best Local Similarity   100.0%;  Pred. No. 1.9;
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Db         17 LVFFAED 23


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; Sequence 1, Application US/08347144
; Patent No. 5589154
;  GENERAL INFORMATION:
;    APPLICANT:  ANDERSON, STEPHEN
;    TITLE OF INVENTION:  METHODS FOR THE PREVENTION AND TREATMENT
;    TITLE OF INVENTION:  OF VASCULAR HEMORRHAGING AND ALZHEIMER'S DISEASE
;    NUMBER OF SEQUENCES:  1
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  HOWREY & SIMON
;      STREET:  1299 PENNSYLVANIA AVENUE, N.W.
;      CITY:  WASHINGTON
;      STATE:  D.C.
;      COUNTRY:  US
;      ZIP:  20004
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/347,144
;      FILING DATE:
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  AUERBACH, JEFFREY I.
;      REGISTRATION NUMBER:  32,680
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 383-7451
;      TELEFAX:  (202) 383-6610
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  42 amino acids
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;      TOPOLOGY:  linear
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;    HYPOTHETICAL:  NO
;    FRAGMENT TYPE:  N-terminal
;    ORIGINAL SOURCE:
;      ORGANISM:  AMYLOID PEPTIDE
US-08-347-144-1

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;    APPLICANT:  Jacobsen, J. S.
;    APPLICANT:  Vitek, M. P.
;    TITLE OF INVENTION:  No. 5652092el Amyloid Precursor and Method of
;    TITLE OF INVENTION:  Using Same to Access Agents Which Down-Regulate
Formation
;    TITLE OF INVENTION:  of B-Amyloid Peptide
;    NUMBER OF SEQUENCES:  19
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  American Cyanamid Company
;      STREET:  One Cyanamid Plaza
;      CITY:  Wayne
;      STATE:  New Jersey
;      COUNTRY:  United States
;      ZIP:  07470-8426
;    COMPUTER READABLE FORM:
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;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/462,859A
;      FILING DATE:  05-JUN-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Barnhard, Elizabeth M.
;      REGISTRATION NUMBER:  31,088
;      REFERENCE/DOCKET NUMBER:  31,844-04
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (201)831-3246
;      TELEFAX:  (201)831-3305
;  INFORMATION FOR SEQ ID NO:  19:
;    SEQUENCE CHARACTERISTICS:
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;      TOPOLOGY:  linear
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US-08-462-859A-19

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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5	35	85.4	11	9	US-09-988-842-25	Sequence 25, Appl
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ALIGNMENTS

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; Publication No. US20030087407A1
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;        APPLICANT: SOTO-JARA, Claudio
;                   BAUMANN, Marc
;                   FRANGIONE, Blas
;        TITLE OF INVENTION: PEPTIDES AND PHARMACEUTICAL
;                            COMPOSITIONS THEREOF FOR TREATMENT OF DISORDERS OR
DISEASES
;                            ASSOCIATED WITH PROTEIN FOLDING INTO AMYLOID OR
AMYLOID-LIKE
;                            DEPOSITS
;        NUMBER OF SEQUENCES: 69
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: BROWDY AND NEIMARK
;             STREET: 419 Seventh Street, N.W., Suite 400
;             CITY: Washington
;             STATE: D.C.
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;              ZIP: 20004
;         COMPUTER READABLE FORM:
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;              COMPUTER: IBM PC compatible
;              OPERATING SYSTEM: PC-DOS/MS-DOS
;              SOFTWARE: PatentIn Release #1.0, Version #1.30
;         CURRENT APPLICATION DATA:
;              APPLICATION NUMBER: US/10/235,483
;              FILING DATE: 06-Sep-2002
;              CLASSIFICATION: <Unknown>
;         PRIOR APPLICATION DATA:
;              APPLICATION NUMBER: US/08/766,596
;              FILING DATE: <Unknown>
;              APPLICATION NUMBER: US 08/630,645
;              FILING DATE: 10-APR-1996
;              APPLICATION NUMBER: US 08/478,326
;              FILING DATE: 06-JUN-1995
;         ATTORNEY/AGENT INFORMATION:
;              NAME: YUN, Allen C.
;              REGISTRATION NUMBER: 37,971
;              REFERENCE/DOCKET NUMBER: SOTO-JARA=1A
;         TELECOMMUNICATION INFORMATION:
;              TELEPHONE: 202-628-5197
;              TELEFAX: 202-737-3528
;    INFORMATION FOR SEQ ID NO: 1:
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;              TOPOLOGY: linear
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US-10-235-483-1

  Query Match             85.4%;  Score 35;  DB 14;  Length 8;
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; Sequence 2, Application US/09899815
; Patent No. US20020162129A1
; GENERAL INFORMATION:
;  APPLICANT: LANNFELT, Lars
;  TITLE OF INVENTION: PREVENTION AND TREATMENT OF ALZHEIMER'S DISEASE
;  FILE REFERENCE: LANNFELT=1A
;  CURRENT APPLICATION NUMBER: US/09/899,815
;  CURRENT FILING DATE:  2001-07-09
;  PRIOR APPLICATION NUMBER: US 60/217,098
;  PRIOR FILING DATE: 2000-07-10
;  PRIOR APPLICATION NUMBER: EP 00202387.7
```

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;  PRIOR FILING DATE: 2000-07-07
;  NUMBER OF SEQ ID NOS: 4
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: synthetic peptide  (16-24 of SEQ ID NO:1)
US-09-899-815-2

  Query Match             85.4%;  Score 35;  DB 9;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 7.1e+05;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db          2 LVFFAED 8


RESULT 3
US-10-235-483-64
; Sequence 64, Application US/10235483
; Publication No. US20030087407A1
;   GENERAL INFORMATION:
;        APPLICANT: SOTO-JARA, Claudio
;                   BAUMANN, Marc
;                   FRANGIONE, Blas
;        TITLE OF INVENTION: PEPTIDES AND PHARMACEUTICAL
;                            COMPOSITIONS THEREOF FOR TREATMENT OF DISORDERS OR
DISEASES
;                            ASSOCIATED WITH PROTEIN FOLDING INTO AMYLOID OR
AMYLOID-LIKE
;                            DEPOSITS
;        NUMBER OF SEQUENCES: 69
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: BROWDY AND NEIMARK
;             STREET: 419 Seventh Street, N.W., Suite 400
;             CITY: Washington
;             STATE: D.C.
;             COUNTRY: USA
;             ZIP: 20004
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/10/235,483
;             FILING DATE: 06-Sep-2002
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US/08/766,596
;             FILING DATE: <Unknown>
;             APPLICATION NUMBER: US 08/630,645
;             FILING DATE: 10-APR-1996
;             APPLICATION NUMBER: US 08/478,326
```

```
;             FILING DATE: 06-JUN-1995
;        ATTORNEY/AGENT INFORMATION:
;             NAME: YUN, Allen C.
;             REGISTRATION NUMBER: 37,971
;             REFERENCE/DOCKET NUMBER: SOTO-JARA=1A
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: 202-628-5197
;             TELEFAX: 202-737-3528
;   INFORMATION FOR SEQ ID NO: 64:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 9 amino acids
;             TYPE: amino acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;        MOLECULE TYPE: peptide
;        SEQUENCE DESCRIPTION: SEQ ID NO: 64:
US-10-235-483-64

  Query Match             85.4%;  Score 35;  DB 14;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 7.1e+05;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db          3 LVFFAED 9


RESULT 4
US-09-988-842-9
; Sequence 9, Application US/09988842
; Patent No. US20020143105A1
; GENERAL INFORMATION:
;  APPLICANT: Johansson, Jan
;  TITLE OF INVENTION: DISCORDANT HELIX STABILIZATION FOR PREVENTION
;  TITLE OF INVENTION:  OF AMYLOID FORMATION
;  FILE REFERENCE: 12125-002001
;  CURRENT APPLICATION NUMBER: US/09/988,842
;  CURRENT FILING DATE:  2001-11-19
;  PRIOR APPLICATION NUMBER: US 60/251,662
;  PRIOR FILING DATE: 2000-12-06
;  PRIOR APPLICATION NUMBER: US 60/253,695
;  PRIOR FILING DATE: 2000-11-20
;  NUMBER OF SEQ ID NOS: 26
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
;   LENGTH: 11
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetically generated peptide
US-09-988-842-9

  Query Match             85.4%;  Score 35;  DB 9;  Length 11;
  Best Local Similarity   100.0%;  Pred. No. 1.4;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
```

```
              |||||||
Db            3 LVFFAED 9


RESULT 5
US-09-988-842-25
; Sequence 25, Application US/09988842
; Patent No. US20020143105A1
; GENERAL INFORMATION:
;  APPLICANT: Johansson, Jan
;  TITLE OF INVENTION: DISCORDANT HELIX STABILIZATION FOR PREVENTION
;  TITLE OF INVENTION:  OF AMYLOID FORMATION
;  FILE REFERENCE: 12125-002001
;  CURRENT APPLICATION NUMBER: US/09/988,842
;  CURRENT FILING DATE:  2001-11-19
;  PRIOR APPLICATION NUMBER: US 60/251,662
;  PRIOR FILING DATE: 2000-12-06
;  PRIOR APPLICATION NUMBER: US 60/253,695
;  PRIOR FILING DATE: 2000-11-20
;  NUMBER OF SEQ ID NOS: 26
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 25
;   LENGTH: 11
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetically generated peptide
US-09-988-842-25

  Query Match             85.4%;  Score 35;  DB 9;  Length 11;
  Best Local Similarity   100.0%;  Pred. No. 1.4;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy            1 LVFFAED 7
              |||||||
Db            3 LVFFAED 9


RESULT 6
US-10-235-483-14
; Sequence 14, Application US/10235483
; Publication No. US20030087407A1
;   GENERAL INFORMATION:
;        APPLICANT: SOTO-JARA, Claudio
;                   BAUMANN, Marc
;                   FRANGIONE, Blas
;        TITLE OF INVENTION: PEPTIDES AND PHARMACEUTICAL
;                            COMPOSITIONS THEREOF FOR TREATMENT OF DISORDERS OR
DISEASES
;                            ASSOCIATED WITH PROTEIN FOLDING INTO AMYLOID OR
AMYLOID-LIKE
;                            DEPOSITS
;        NUMBER OF SEQUENCES: 69
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: BROWDY AND NEIMARK
;             STREET: 419 Seventh Street, N.W., Suite 400
;             CITY: Washington
```

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;               STATE: D.C.
;               COUNTRY: USA
;               ZIP: 20004
;          COMPUTER READABLE FORM:
;               MEDIUM TYPE: Floppy disk
;               COMPUTER: IBM PC compatible
;               OPERATING SYSTEM: PC-DOS/MS-DOS
;               SOFTWARE: PatentIn Release #1.0, Version #1.30
;          CURRENT APPLICATION DATA:
;               APPLICATION NUMBER: US/10/235,483
;               FILING DATE: 06-Sep-2002
;               CLASSIFICATION: <Unknown>
;          PRIOR APPLICATION DATA:
;               APPLICATION NUMBER: US/08/766,596
;               FILING DATE: <Unknown>
;               APPLICATION NUMBER: US 08/630,645
;               FILING DATE: 10-APR-1996
;               APPLICATION NUMBER: US 08/478,326
;               FILING DATE: 06-JUN-1995
;          ATTORNEY/AGENT INFORMATION:
;               NAME: YUN, Allen C.
;               REGISTRATION NUMBER: 37,971
;               REFERENCE/DOCKET NUMBER: SOTO-JARA=1A
;          TELECOMMUNICATION INFORMATION:
;               TELEPHONE: 202-628-5197
;               TELEFAX: 202-737-3528
;     INFORMATION FOR SEQ ID NO: 14:
;          SEQUENCE CHARACTERISTICS:
;               LENGTH: 11 amino acids
;               TYPE: amino acid
;               STRANDEDNESS: single
;               TOPOLOGY: linear
;          MOLECULE TYPE: peptide
;          SEQUENCE DESCRIPTION: SEQ ID NO: 14:
US-10-235-483-14

  Query Match             85.4%;  Score 35;  DB 14;  Length 11;
  Best Local Similarity   100.0%;  Pred. No. 1.4;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db          3 LVFFAED 9


RESULT 7
US-10-281-458-1
; Sequence 1, Application US/10281458
; Publication No. US20030108978A1
; GENERAL INFORMATION:
;  APPLICANT: Ciambrone, Gary J.
;  APPLICANT:  Gibbons, Ian
;  TITLE OF INVENTION: Whole Cell Assay Systems for Cell
;  TITLE OF INVENTION:  Surface Proteases
;  FILE REFERENCE: 50225-8093.US03
;  CURRENT APPLICATION NUMBER: US/10/281,458
;  CURRENT FILING DATE:  2002-10-25
```

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;  PRIOR APPLICATION NUMBER: US 60/337,641
;  PRIOR FILING DATE: 2001-10-25
;  PRIOR APPLICATION NUMBER: US 09/924,692
;  PRIOR FILING DATE: 2001-08-08
;  NUMBER OF SEQ ID NOS: 3
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1
;   LENGTH: 13
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-281-458-1

  Query Match             85.4%;  Score 35;  DB 14;  Length 13;
  Best Local Similarity   100.0%;  Pred. No. 1.7;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db          7 LVFFAED 13


RESULT 8
US-09-992-800-5
; Sequence 5, Application US/09992800
; Patent No. US20020102261A1
; GENERAL INFORMATION:
;  APPLICANT: Raso, Victor
;  TITLE OF INVENTION: IMMUNOLOGICAL CONTROL OF BETA-AMYLOID LEVELS IN VIVO
;  FILE REFERENCE: BBRI-2006
;  CURRENT APPLICATION NUMBER: US/09/992,800
;  CURRENT FILING DATE:  2001-11-06
;  PRIOR APPLICATION NUMBER: 09/594,366
;  PRIOR FILING DATE: 2000-06-15
;  PRIOR APPLICATION NUMBER: 60/139,408
;  PRIOR FILING DATE: 1999-06-16
;  NUMBER OF SEQ ID NOS: 7
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
;   LENGTH: 14
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-992-800-5

  Query Match             85.4%;  Score 35;  DB 9;  Length 14;
  Best Local Similarity   100.0%;  Pred. No. 1.8;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db          5 LVFFAED 11


RESULT 9
US-09-992-994-5
; Sequence 5, Application US/09992994
; Patent No. US20020136718A1
; GENERAL INFORMATION:
```

```
;  APPLICANT: Raso, Victor
;  TITLE OF INVENTION: IMMUNOLOGICAL CONTROL OF BETA-AMYLOID LEVELS IN VIVO
;  FILE REFERENCE: BBRI-2005
;  CURRENT APPLICATION NUMBER: US/09/992,994
;  CURRENT FILING DATE:  2001-11-06
;  PRIOR APPLICATION NUMBER: 09/594,366
;  PRIOR FILING DATE: 2000-06-15
;  PRIOR APPLICATION NUMBER: 60/139,408
;  PRIOR FILING DATE: 1999-06-16
;  NUMBER OF SEQ ID NOS: 7
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
;   LENGTH: 14
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-992-994-5

  Query Match             85.4%;  Score 35;  DB 9;  Length 14;
  Best Local Similarity   100.0%;  Pred. No. 1.8;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db          5 LVFFAED 11


RESULT 10
US-10-385-065-5
; Sequence 5, Application US/10385065
; Publication No. US20030235897A1
; GENERAL INFORMATION:
;  APPLICANT: Raso, Victor
;  TITLE OF INVENTION: IMMUNOLOGICAL CONTROL OF BETA-AMYLOID LEVELS IN VIVO
;  FILE REFERENCE: BBRI-2004
;  CURRENT APPLICATION NUMBER: US/10/385,065
;  CURRENT FILING DATE:  2003-03-10
;  PRIOR APPLICATION NUMBER: US/09/594,366
;  PRIOR FILING DATE: 2000-06-15
;  PRIOR APPLICATION NUMBER: 60/139,408
;  PRIOR FILING DATE: 1999-06-16
;  NUMBER OF SEQ ID NOS: 7
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
;   LENGTH: 14
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-385-065-5

  Query Match             85.4%;  Score 35;  DB 15;  Length 14;
  Best Local Similarity   100.0%;  Pred. No. 1.8;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db          5 LVFFAED 11
```

```
RESULT 11
US-09-972-475-14
; Sequence 14, Application US/09972475
; Patent No. US20020098173A1
;   GENERAL INFORMATION:
;        APPLICANT: Findeis, Mark A. et al.
;        TITLE OF INVENTION: Modulators of Amyloid Aggregation
;        NUMBER OF SEQUENCES: 45
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: LAHIVE & COCKFIELD, LLP
;             STREET: 28 State Street
;             CITY: Boston
;             STATE: Massachusetts
;             COUNTRY: USA
;             ZIP: 02109-1875
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.25
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/972,475
;             FILING DATE: 04-Oct-2001
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 08/617,267
;             FILING DATE: <Unknown>
;             APPLICATION NUMBER: USSN 08/475,579
;             FILING DATE: 07-JUN-1995
;             APPLICATION NUMBER: USSN 08/548,998
;             FILING DATE: 27-OCT-1995
;        ATTORNEY/AGENT INFORMATION:
;             NAME: DeConti, Giulio A.
;             REGISTRATION NUMBER: 31,503
;             REFERENCE/DOCKET NUMBER: PPI-002CP2
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (617)227-7400
;             TELEFAX: (617)227-5941
;   INFORMATION FOR SEQ ID NO: 14:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 15 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: peptide
;        FRAGMENT TYPE: internal
;        SEQUENCE DESCRIPTION: SEQ ID NO: 14:
US-09-972-475-14

  Query Match             85.4%;  Score 35;  DB 9;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 1.9;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db          2 LVFFAED 8


RESULT 12
```

```
US-09-996-357-9
; Sequence 9, Application US/09996357
; Patent No. US20020133001A1
; GENERAL INFORMATION:
;  APPLICANT: Gefter, Malcolm L
;  APPLICANT:  Isreal, David I
;  APPLICANT:  Joyal, John L
;  APPLICANT:  Gosselin, Michael
;  TITLE OF INVENTION: THERAPEUTIC AGENTS AND METHODS OF USE THEREOF FOR
;  TITLE OF INVENTION:  TREATING AN AMYLOIDOGENIC DISEASE
;  FILE REFERENCE: PPI-105
;  CURRENT APPLICATION NUMBER: US/09/996,357
;  CURRENT FILING DATE:  2001-11-27
;  PRIOR APPLICATION NUMBER: 60/253,302
;  PRIOR FILING DATE: 2000-11-27
;  PRIOR APPLICATION NUMBER: 60/250,198
;  PRIOR FILING DATE: 2000-11-29
;  PRIOR APPLICATION NUMBER: 60/257,186
;  PRIOR FILING DATE: 2000-12-20
;  NUMBER OF SEQ ID NOS: 13
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-996-357-9

  Query Match             85.4%;  Score 35;  DB 9;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 1.9;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db          2 LVFFAED 8


RESULT 13
US-10-235-483-56
; Sequence 56, Application US/10235483
; Publication No. US20030087407A1
;   GENERAL INFORMATION:
;        APPLICANT: SOTO-JARA, Claudio
;                   BAUMANN, Marc
;                   FRANGIONE, Blas
;        TITLE OF INVENTION: PEPTIDES AND PHARMACEUTICAL
;                            COMPOSITIONS THEREOF FOR TREATMENT OF DISORDERS OR
DISEASES
;                            ASSOCIATED WITH PROTEIN FOLDING INTO AMYLOID OR
AMYLOID-LIKE
;                            DEPOSITS
;        NUMBER OF SEQUENCES: 69
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: BROWDY AND NEIMARK
;             STREET: 419 Seventh Street, N.W., Suite 400
;             CITY: Washington
;             STATE: D.C.
;             COUNTRY: USA
```

```
;             ZIP: 20004
;         COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;         CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/10/235,483
;             FILING DATE: 06-Sep-2002
;             CLASSIFICATION: <Unknown>
;         PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US/08/766,596
;             FILING DATE: <Unknown>
;             APPLICATION NUMBER: US 08/630,645
;             FILING DATE: 10-APR-1996
;             APPLICATION NUMBER: US 08/478,326
;             FILING DATE: 06-JUN-1995
;         ATTORNEY/AGENT INFORMATION:
;             NAME: YUN, Allen C.
;             REGISTRATION NUMBER: 37,971
;             REFERENCE/DOCKET NUMBER: SOTO-JARA=1A
;         TELECOMMUNICATION INFORMATION:
;             TELEPHONE: 202-628-5197
;             TELEFAX: 202-737-3528
;    INFORMATION FOR SEQ ID NO: 56:
;         SEQUENCE CHARACTERISTICS:
;             LENGTH: 15 amino acids
;             TYPE: amino acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;         MOLECULE TYPE: peptide
;         SEQUENCE DESCRIPTION: SEQ ID NO: 56:
US-10-235-483-56

  Query Match             85.4%;  Score 35;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 1.9;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db          6 LVFFAED 12


RESULT 14
US-10-235-483-57
; Sequence 57, Application US/10235483
; Publication No. US20030087407A1
;    GENERAL INFORMATION:
;         APPLICANT: SOTO-JARA, Claudio
;                    BAUMANN, Marc
;                    FRANGIONE, Blas
;         TITLE OF INVENTION: PEPTIDES AND PHARMACEUTICAL
;                             COMPOSITIONS THEREOF FOR TREATMENT OF DISORDERS OR
DISEASES
;                             ASSOCIATED WITH PROTEIN FOLDING INTO AMYLOID OR
AMYLOID-LIKE
;                             DEPOSITS
```

```
;         NUMBER OF SEQUENCES: 69
;         CORRESPONDENCE ADDRESS:
;              ADDRESSEE: BROWDY AND NEIMARK
;              STREET: 419 Seventh Street, N.W., Suite 400
;              CITY: Washington
;              STATE: D.C.
;              COUNTRY: USA
;              ZIP: 20004
;         COMPUTER READABLE FORM:
;              MEDIUM TYPE: Floppy disk
;              COMPUTER: IBM PC compatible
;              OPERATING SYSTEM: PC-DOS/MS-DOS
;              SOFTWARE: PatentIn Release #1.0, Version #1.30
;         CURRENT APPLICATION DATA:
;              APPLICATION NUMBER: US/10/235,483
;              FILING DATE: 06-Sep-2002
;              CLASSIFICATION: <Unknown>
;         PRIOR APPLICATION DATA:
;              APPLICATION NUMBER: US/08/766,596
;              FILING DATE: <Unknown>
;              APPLICATION NUMBER: US 08/630,645
;              FILING DATE: 10-APR-1996
;              APPLICATION NUMBER: US 08/478,326
;              FILING DATE: 06-JUN-1995
;         ATTORNEY/AGENT INFORMATION:
;              NAME: YUN, Allen C.
;              REGISTRATION NUMBER: 37,971
;              REFERENCE/DOCKET NUMBER: SOTO-JARA=1A
;         TELECOMMUNICATION INFORMATION:
;              TELEPHONE: 202-628-5197
;              TELEFAX: 202-737-3528
;    INFORMATION FOR SEQ ID NO: 57:
;         SEQUENCE CHARACTERISTICS:
;              LENGTH: 15 amino acids
;              TYPE: amino acid
;              STRANDEDNESS: single
;              TOPOLOGY: linear
;         MOLECULE TYPE: peptide
;         SEQUENCE DESCRIPTION: SEQ ID NO: 57:
US-10-235-483-57

  Query Match             85.4%;  Score 35;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 1.9;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db          6 LVFFAED 12


RESULT 15
US-10-235-483-58
; Sequence 58, Application US/10235483
; Publication No. US20030087407A1
;   GENERAL INFORMATION:
;         APPLICANT: SOTO-JARA, Claudio
;                    BAUMANN, Marc
```

```
;                    FRANGIONE, Blas
;         TITLE OF INVENTION: PEPTIDES AND PHARMACEUTICAL
;                             COMPOSITIONS THEREOF FOR TREATMENT OF DISORDERS OR
DISEASES
;                             ASSOCIATED WITH PROTEIN FOLDING INTO AMYLOID OR
AMYLOID-LIKE
;                             DEPOSITS
;         NUMBER OF SEQUENCES: 69
;         CORRESPONDENCE ADDRESS:
;              ADDRESSEE: BROWDY AND NEIMARK
;              STREET: 419 Seventh Street, N.W., Suite 400
;              CITY: Washington
;              STATE: D.C.
;              COUNTRY: USA
;              ZIP: 20004
;         COMPUTER READABLE FORM:
;              MEDIUM TYPE: Floppy disk
;              COMPUTER: IBM PC compatible
;              OPERATING SYSTEM: PC-DOS/MS-DOS
;              SOFTWARE: PatentIn Release #1.0, Version #1.30
;         CURRENT APPLICATION DATA:
;              APPLICATION NUMBER: US/10/235,483
;              FILING DATE: 06-Sep-2002
;              CLASSIFICATION: <Unknown>
;         PRIOR APPLICATION DATA:
;              APPLICATION NUMBER: US/08/766,596
;              FILING DATE: <Unknown>
;              APPLICATION NUMBER: US 08/630,645
;              FILING DATE: 10-APR-1996
;              APPLICATION NUMBER: US 08/478,326
;              FILING DATE: 06-JUN-1995
;         ATTORNEY/AGENT INFORMATION:
;              NAME: YUN, Allen C.
;              REGISTRATION NUMBER: 37,971
;              REFERENCE/DOCKET NUMBER: SOTO-JARA=1A
;         TELECOMMUNICATION INFORMATION:
;              TELEPHONE: 202-628-5197
;              TELEFAX: 202-737-3528
;    INFORMATION FOR SEQ ID NO: 58:
;         SEQUENCE CHARACTERISTICS:
;              LENGTH: 15 amino acids
;              TYPE: amino acid
;              STRANDEDNESS: single
;              TOPOLOGY: linear
;         MOLECULE TYPE: peptide
;         SEQUENCE DESCRIPTION: SEQ ID NO: 58:
US-10-235-483-58

  Query Match             85.4%;  Score 35;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 1.9;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db          6 LVFFAED 12
```

```
RESULT 16
US-10-235-483-59
; Sequence 59, Application US/10235483
; Publication No. US20030087407A1
;   GENERAL INFORMATION:
;        APPLICANT: SOTO-JARA, Claudio
;                   BAUMANN, Marc
;                   FRANGIONE, Blas
;        TITLE OF INVENTION: PEPTIDES AND PHARMACEUTICAL
;                            COMPOSITIONS THEREOF FOR TREATMENT OF DISORDERS OR
DISEASES
;                            ASSOCIATED WITH PROTEIN FOLDING INTO AMYLOID OR
AMYLOID-LIKE
;                            DEPOSITS
;        NUMBER OF SEQUENCES: 69
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: BROWDY AND NEIMARK
;             STREET: 419 Seventh Street, N.W., Suite 400
;             CITY: Washington
;             STATE: D.C.
;             COUNTRY: USA
;             ZIP: 20004
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/10/235,483
;             FILING DATE: 06-Sep-2002
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US/08/766,596
;             FILING DATE: <Unknown>
;             APPLICATION NUMBER: US 08/630,645
;             FILING DATE: 10-APR-1996
;             APPLICATION NUMBER: US 08/478,326
;             FILING DATE: 06-JUN-1995
;        ATTORNEY/AGENT INFORMATION:
;             NAME: YUN, Allen C.
;             REGISTRATION NUMBER: 37,971
;             REFERENCE/DOCKET NUMBER: SOTO-JARA=1A
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: 202-628-5197
;             TELEFAX: 202-737-3528
;   INFORMATION FOR SEQ ID NO: 59:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 15 amino acids
;             TYPE: amino acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;        MOLECULE TYPE: peptide
;        SEQUENCE DESCRIPTION: SEQ ID NO: 59:
US-10-235-483-59

  Query Match             85.4%;  Score 35;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 1.9;
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  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db          6 LVFFAED 12


RESULT 17
US-10-235-483-63
; Sequence 63, Application US/10235483
; Publication No. US20030087407A1
;   GENERAL INFORMATION:
;        APPLICANT: SOTO-JARA, Claudio
;                   BAUMANN, Marc
;                   FRANGIONE, Blas
;        TITLE OF INVENTION: PEPTIDES AND PHARMACEUTICAL
;                            COMPOSITIONS THEREOF FOR TREATMENT OF DISORDERS OR
DISEASES
;                            ASSOCIATED WITH PROTEIN FOLDING INTO AMYLOID OR
AMYLOID-LIKE
;                            DEPOSITS
;        NUMBER OF SEQUENCES: 69
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: BROWDY AND NEIMARK
;             STREET: 419 Seventh Street, N.W., Suite 400
;             CITY: Washington
;             STATE: D.C.
;             COUNTRY: USA
;             ZIP: 20004
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/10/235,483
;             FILING DATE: 06-Sep-2002
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US/08/766,596
;             FILING DATE: <Unknown>
;             APPLICATION NUMBER: US 08/630,645
;             FILING DATE: 10-APR-1996
;             APPLICATION NUMBER: US 08/478,326
;             FILING DATE: 06-JUN-1995
;        ATTORNEY/AGENT INFORMATION:
;             NAME: YUN, Allen C.
;             REGISTRATION NUMBER: 37,971
;             REFERENCE/DOCKET NUMBER: SOTO-JARA=1A
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: 202-628-5197
;             TELEFAX: 202-737-3528
;   INFORMATION FOR SEQ ID NO: 63:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 15 amino acids
;             TYPE: amino acid
;             STRANDEDNESS: single
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;             TOPOLOGY: linear
;        MOLECULE TYPE: peptide
;        SEQUENCE DESCRIPTION: SEQ ID NO: 63:
US-10-235-483-63

  Query Match             85.4%;  Score 35;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 1.9;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db          6 LVFFAED 12


RESULT 18
US-10-235-483-65
; Sequence 65, Application US/10235483
; Publication No. US20030087407A1
;   GENERAL INFORMATION:
;        APPLICANT: SOTO-JARA, Claudio
;                   BAUMANN, Marc
;                   FRANGIONE, Blas
;        TITLE OF INVENTION: PEPTIDES AND PHARMACEUTICAL
;                            COMPOSITIONS THEREOF FOR TREATMENT OF DISORDERS OR
DISEASES
;                            ASSOCIATED WITH PROTEIN FOLDING INTO AMYLOID OR
AMYLOID-LIKE
;                            DEPOSITS
;        NUMBER OF SEQUENCES: 69
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: BROWDY AND NEIMARK
;             STREET: 419 Seventh Street, N.W., Suite 400
;             CITY: Washington
;             STATE: D.C.
;             COUNTRY: USA
;             ZIP: 20004
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/10/235,483
;             FILING DATE: 06-Sep-2002
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US/08/766,596
;             FILING DATE: <Unknown>
;             APPLICATION NUMBER: US 08/630,645
;             FILING DATE: 10-APR-1996
;             APPLICATION NUMBER: US 08/478,326
;             FILING DATE: 06-JUN-1995
;        ATTORNEY/AGENT INFORMATION:
;             NAME: YUN, Allen C.
;             REGISTRATION NUMBER: 37,971
;             REFERENCE/DOCKET NUMBER: SOTO-JARA=1A
;        TELECOMMUNICATION INFORMATION:
```

```
;              TELEPHONE: 202-628-5197
;              TELEFAX: 202-737-3528
;    INFORMATION FOR SEQ ID NO: 65:
;         SEQUENCE CHARACTERISTICS:
;              LENGTH: 15 amino acids
;              TYPE: amino acid
;              STRANDEDNESS: single
;              TOPOLOGY: linear
;         MOLECULE TYPE: peptide
;         SEQUENCE DESCRIPTION: SEQ ID NO: 65:
US-10-235-483-65

  Query Match             85.4%;  Score 35;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 1.9;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db          6 LVFFAED 12


RESULT 19
US-10-463-729-14
; Sequence 14, Application US/10463729
; Publication No. US20040005307A1
;  GENERAL INFORMATION:
;    APPLICANT:  Findeis, Mark A. et al.
;    TITLE OF INVENTION:  Modulators of Amyloid Aggregation
;    NUMBER OF SEQUENCES:  45
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD, LLP
;      STREET:  28 State Street
;      CITY:  Boston
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02109-1875
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/10/463,729
;      FILING DATE:  17-JUNE-2003
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/617,267C
;      FILING DATE:  14-MAR-1996
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 08/404,831
;      FILING DATE:  14-MAR-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 08/475,579
;      FILING DATE:  07-JUN-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  USSN 08/548,998
;      FILING DATE:  27-OCT-1995
;    ATTORNEY/AGENT INFORMATION:
```

```
;       NAME:  DeConti, Giulio A.
;       REGISTRATION NUMBER:  31,503
;       REFERENCE/DOCKET NUMBER:  PPI-002CP2
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (617)227-7400
;       TELEFAX:  (617)227-5941
;   INFORMATION FOR SEQ ID NO:  14:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  15 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  peptide
;     FRAGMENT TYPE:  internal
US-10-463-729-14

  Query Match             85.4%;  Score 35;  DB 15;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 1.9;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db          2 LVFFAED 8


RESULT 20
US-09-992-800-3
; Sequence 3, Application US/09992800
; Patent No. US20020102261A1
; GENERAL INFORMATION:
;  APPLICANT: Raso, Victor
;  TITLE OF INVENTION: IMMUNOLOGICAL CONTROL OF BETA-AMYLOID LEVELS IN VIVO
;  FILE REFERENCE: BBRI-2006
;  CURRENT APPLICATION NUMBER: US/09/992,800
;  CURRENT FILING DATE:  2001-11-06
;  PRIOR APPLICATION NUMBER: 09/594,366
;  PRIOR FILING DATE: 2000-06-15
;  PRIOR APPLICATION NUMBER: 60/139,408
;  PRIOR FILING DATE: 1999-06-16
;  NUMBER OF SEQ ID NOS: 7
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
;   LENGTH: 17
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-992-800-3

  Query Match             85.4%;  Score 35;  DB 9;  Length 17;
  Best Local Similarity   100.0%;  Pred. No. 2.2;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db          9 LVFFAED 15


RESULT 21
US-09-992-994-3
```

; Sequence 3, Application US/09992994
; Patent No. US20020136718A1
; GENERAL INFORMATION:
; APPLICANT: Raso, Victor
; TITLE OF INVENTION: IMMUNOLOGICAL CONTROL OF BETA-AMYLOID LEVELS IN VIVO
; FILE REFERENCE: BBRI-2005
; CURRENT APPLICATION NUMBER: US/09/992,994
; CURRENT FILING DATE: 2001-11-06
; PRIOR APPLICATION NUMBER: 09/594,366
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 60/139,408
; PRIOR FILING DATE: 1999-06-16
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
;   LENGTH: 17
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-992-994-3

  Query Match   85.4%; Score 35; DB 9; Length 17;
  Best Local Similarity   100.0%; Pred. No. 2.2;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LVFFAED 7
              |||||||
Db   9 LVFFAED 15

RESULT 22
US-09-998-491-8
; Sequence 8, Application US/09998491
; Publication No. US20030166529A1
; GENERAL INFORMATION:
; APPLICANT: Mileusnic, Radmilla
; APPLICANT: Rose, Stephen Peter Russell
; TITLE OF INVENTION: Polypeptides and their Uses
; FILE REFERENCE: 3578-120
; CURRENT APPLICATION NUMBER: US/09/998,491
; CURRENT FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: GB 0109558.7
; PRIOR FILING DATE: 2001-04-18
; PRIOR APPLICATION NUMBER: GB 0120084
; PRIOR FILING DATE: 2001-08-07
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8
;   LENGTH: 17
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: 17-mer polypeptide
US-09-998-491-8

  Query Match   85.4%; Score 35; DB 10; Length 17;
  Best Local Similarity   100.0%; Pred. No. 2.2;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

```
Qy          1 LVFFAED 7
              |||||||
Db          6 LVFFAED 12


RESULT 23
US-10-385-065-3
; Sequence 3, Application US/10385065
; Publication No. US20030235897A1
; GENERAL INFORMATION:
;  APPLICANT: Raso, Victor
;  TITLE OF INVENTION: IMMUNOLOGICAL CONTROL OF BETA-AMYLOID LEVELS IN VIVO
;  FILE REFERENCE: BBRI-2004
;  CURRENT APPLICATION NUMBER: US/10/385,065
;  CURRENT FILING DATE:  2003-03-10
;  PRIOR APPLICATION NUMBER: US/09/594,366
;  PRIOR FILING DATE: 2000-06-15
;  PRIOR APPLICATION NUMBER: 60/139,408
;  PRIOR FILING DATE: 1999-06-16
;  NUMBER OF SEQ ID NOS: 7
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
;   LENGTH: 17
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-385-065-3

  Query Match             85.4%;  Score 35;  DB 15;  Length 17;
  Best Local Similarity   100.0%;  Pred. No. 2.2;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db          9 LVFFAED 15


RESULT 24
US-09-825-242-5
; Sequence 5, Application US/09825242
; Publication No. US20030092000A1
; GENERAL INFORMATION:
;  APPLICANT: Schenk, Dale B.
;  APPLICANT:  Neuralab Limited
;  TITLE OF INVENTION: Prevention and Treatment of Amyloidogenic Disease
;  FILE REFERENCE: 15270J-004720US
;  CURRENT APPLICATION NUMBER: US/09/825,242
;  CURRENT FILING DATE:  2001-04-02
;  PRIOR APPLICATION NUMBER: 09/201,430
;  PRIOR FILING DATE: 1998-11-30
;  PRIOR APPLICATION NUMBER: US 60/080,970
;  PRIOR FILING DATE: 1998-04-07
;  NUMBER OF SEQ ID NOS: 5
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
;   LENGTH: 19
;   TYPE: PRT
```

```
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:Abeta13-28
;   OTHER INFORMATION: peptide with carboxyl terminal Cys residue
;   OTHER INFORMATION: inserted and two added Gly residues
;   NAME/KEY: MOD_RES
;   LOCATION: (1)
;   OTHER INFORMATION: Xaa = acetyl histidine
US-09-825-242-5

  Query Match             85.4%;  Score 35;  DB 10;  Length 19;
  Best Local Similarity   100.0%;  Pred. No. 2.5;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db          5 LVFFAED 11


RESULT 25
US-09-792-079-11
; Sequence 11, Application US/09792079
; Publication No. US20030083277A1
; GENERAL INFORMATION:
;  APPLICANT: University of Kentucky Research Foundation
;  APPLICANT:  Hersh, Louis B.
;  APPLICANT:  Mukherjee, Atish
;  TITLE OF INVENTION: Use Of Insulin Degrading Enzyme (IDE) For The Treatment
Of Alzheimer's
;  TITLE OF INVENTION:  Disease Patients
;  FILE REFERENCE: 050229-0261
;  CURRENT APPLICATION NUMBER: US/09/792,079
;  CURRENT FILING DATE:  2001-02-26
;  PRIOR APPLICATION NUMBER: 60/184,826
;  PRIOR FILING DATE: 2000-02-24
;  NUMBER OF SEQ ID NOS: 13
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
;   LENGTH: 26
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-792-079-11

  Query Match             85.4%;  Score 35;  DB 10;  Length 26;
  Best Local Similarity   100.0%;  Pred. No. 3.4;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db          3 LVFFAED 9


RESULT 26
US-10-159-279-11
; Sequence 11, Application US/10159279
; Publication No. US20030165481A1
; GENERAL INFORMATION:
```

; APPLICANT: University of Kentucky Research Foundation
; APPLICANT: Hersh, Louis B.
; APPLICANT: Mukherjee, Atish
; TITLE OF INVENTION: Use Of Insulin Degrading Enzyme (IDE) For The Treatment
Of Alzheimer's
; TITLE OF INVENTION: Disease Patients
; FILE REFERENCE: 050229-0298
; CURRENT APPLICATION NUMBER: US/10/159,279
; CURRENT FILING DATE: 2002-06-03
; PRIOR APPLICATION NUMBER: 60/184,826
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 09/792,079
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 26
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-159-279-11

Query Match 85.4%; Score 35; DB 14; Length 26;
Best Local Similarity 100.0%; Pred. No. 3.4;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 LVFFAED 7
              |||||||
Db          3 LVFFAED 9
```

RESULT 27
US-09-867-847-4
; Sequence 4, Application US/09867847
; Patent No. US20020094335A1
; GENERAL INFORMATION:
; APPLICANT: Chalifour, Robert
; APPLICANT: Hebert, Lise
; APPLICANT: Kong, Xianqi
; APPLICANT: Gervais, Francine
; TITLE OF INVENTION: VACCINE FOR THE PREVENTION AND TREATMENT OF ALZHEIMER'S
; TITLE OF INVENTION: AND AMYLOID RELATED DISEASES
; FILE REFERENCE: 14445-501 CIP
; CURRENT APPLICATION NUMBER: US/09/867,847
; CURRENT FILING DATE: 2001-09-20
; PRIOR APPLICATION NUMBER: 60/168,594
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: 09/724,842
; PRIOR FILING DATE: 2000-11-28
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: All D peptides
; OTHER INFORMATION: or peptidomimetics

US-09-867-847-4

  Query Match   85.4%; Score 35; DB 9; Length 28;
  Best Local Similarity   100.0%; Pred. No. 3.7;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

```
Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23
```

RESULT 28
US-09-865-294-66
; Sequence 66, Application US/09865294
; Publication No. US20030068325A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Chang Yi
; TITLE OF INVENTION: Immunogenic peptide composition as vaccines for the
; TITLE OF INVENTION: prevention and treatment of Alzheimer's Disease
; FILE REFERENCE: 1151-4167
; CURRENT APPLICATION NUMBER: US/09/865,294
; CURRENT FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 76
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 66
;   LENGTH: 28
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-865-294-66

  Query Match   85.4%; Score 35; DB 10; Length 28;
  Best Local Similarity   100.0%; Pred. No. 3.7;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

```
Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23
```

RESULT 29
US-09-792-079-5
; Sequence 5, Application US/09792079
; Publication No. US20030083277A1
; GENERAL INFORMATION:
; APPLICANT: University of Kentucky Research Foundation
; APPLICANT: Hersh, Louis B.
; APPLICANT: Mukherjee, Atish
; TITLE OF INVENTION: Use Of Insulin Degrading Enzyme (IDE) For The Treatment
Of Alzheimer's
; TITLE OF INVENTION: Disease Patients
; FILE REFERENCE: 050229-0261
; CURRENT APPLICATION NUMBER: US/09/792,079
; CURRENT FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: 60/184,826
; PRIOR FILING DATE: 2000-02-24
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 5
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-792-079-5

  Query Match 85.4%; Score 35; DB 10; Length 28;
  Best Local Similarity 100.0%; Pred. No. 3.7;
  Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LVFFAED 7
      |||||||
Db 17 LVFFAED 23

RESULT 30
US-10-159-279-5
; Sequence 5, Application US/10159279
; Publication No. US20030165481A1
; GENERAL INFORMATION:
; APPLICANT: University of Kentucky Research Foundation
; APPLICANT: Hersh, Louis B.
; APPLICANT: Mukherjee, Atish
; TITLE OF INVENTION: Use Of Insulin Degrading Enzyme (IDE) For The Treatment
Of Alzheimer's
; TITLE OF INVENTION: Disease Patients
; FILE REFERENCE: 050229-0298
; CURRENT APPLICATION NUMBER: US/10/159,279
; CURRENT FILING DATE: 2002-06-03
; PRIOR APPLICATION NUMBER: 60/184,826
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 09/792,079
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-159-279-5

  Query Match 85.4%; Score 35; DB 14; Length 28;
  Best Local Similarity 100.0%; Pred. No. 3.7;
  Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LVFFAED 7
      |||||||
Db 17 LVFFAED 23

RESULT 31
US-09-861-847-1
; Sequence 1, Application US/09861847
; Patent No. US20020077288A1
; GENERAL INFORMATION:
; APPLICANT: FRANGIONE, Blas
; APPLICANT: WISNIEWSKI, Thomas

; APPLICANT: SIGURDSSON, Einar
; TITLE OF INVENTION: SYNTHETIC IMMUNOGENIC BUT NON-AMYLOIDOGENIC PEPTIDES HOMOLOGOUS TO
; TITLE OF INVENTION: AMYLOID BETA FOR INDUCTION OF AN IMMUNE RESPONSE TO AMYLOID BETA AND
; TITLE OF INVENTION: AMYLOID DEPOSITS
; FILE REFERENCE: FRANGIONE=2A
; CURRENT APPLICATION NUMBER: US/09/861,847
; CURRENT FILING DATE: 2001-05-22
; PRIOR APPLICATION NUMBER: 60/016,233
; PRIOR FILING DATE: 2000-05-22
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-09-861-847-1

Query Match 85.4%; Score 35; DB 9; Length 30;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LVFFAED 7
|||||||
Db 17 LVFFAED 23

RESULT 32
US-10-301-488A-1
; Sequence 1, Application US/10301488A
; Publication No. US20030166558A1
; GENERAL INFORMATION:
; APPLICANT: FRANGIONE, Blas
; APPLICANT: WISNIEWSKI, Thomas
; APPLICANT: SIGURDSSON, Einar
; TITLE OF INVENTION: SYNTHETIC IMMUNOGENIC BUT NON-DEPOSIT-FORMING POLYPEPTIDES AND
; TITLE OF INVENTION: PEPTIDES HOMOLOGOUS TO AMYLOID BETA, PRION PROTEIN, AMYLIN,
; TITLE OF INVENTION: ALPHA-SYNUCLEIN, OR POLYGLUTAMINE REPEATS FOR INDUCTION OF AN
; TITLE OF INVENTION: IMMUNE RESPONSE THERETO
; FILE REFERENCE: 5986/1K434US1
; CURRENT APPLICATION NUMBER: US/10/301,488A
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 60/331,801
; PRIOR FILING DATE: 2001-11-21
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:

; OTHER INFORMATION: Synthetic
US-10-301-488A-1

  Query Match   85.4%; Score 35; DB 14; Length 30;
  Best Local Similarity   100.0%; Pred. No. 4;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LVFFAED 7
              |||||||
Db   17 LVFFAED 23

RESULT 33
US-09-930-915A-295
; Sequence 295, Application US/09930915A
; Publication No. US20030138769A1
; GENERAL INFORMATION:
; APPLICANT: Birkett, Ashley J.
; TITLE OF INVENTION: IMMUNOGENIC HBc CHIMER PARTICLES HAVING ENHANCED
; TITLE OF INVENTION: STABILITY
; FILE REFERENCE: 4564/83501 ICC-102.2 PCT
; CURRENT APPLICATION NUMBER: US/09/930,915A
; CURRENT FILING DATE: 2001-08-15
; PRIOR APPLICATION NUMBER: 60/226,867
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: 60/225,843
; PRIOR FILING DATE: 2000-08-16
; NUMBER OF SEQ ID NOS: 313
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 295
;   LENGTH: 33
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-930-915A-295

  Query Match   85.4%; Score 35; DB 10; Length 33;
  Best Local Similarity   100.0%; Pred. No. 4.4;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LVFFAED 7
              |||||||
Db   17 LVFFAED 23

RESULT 34
US-10-082-014-84
; Sequence 84, Application US/10082014
; Publication No. US20030185858A1
; GENERAL INFORMATION:
; APPLICANT: Birkett, Ashley J.
; TITLE OF INVENTION: IMMUNOGENIC HBc CHIMER PARTICLES STABILIZED WITH AN N-
TERMINAL CYSTEINE
; FILE REFERENCE: ICC-130.0 4564/85124
; CURRENT APPLICATION NUMBER: US/10/082,014
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 09/930,915
; PRIOR FILING DATE: 2001-08-15

; NUMBER OF SEQ ID NOS: 290
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 84
;   LENGTH: 33
;   TYPE: PRT
;   ORGANISM: Alzheimer's disease b-Amyloid
US-10-082-014-84

  Query Match   85.4%; Score 35; DB 14; Length 33;
  Best Local Similarity   100.0%; Pred. No. 4.4;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LVFFAED 7
              |||||||
Db   17 LVFFAED 23

RESULT 35
US-10-372-076-85
; Sequence 85, Application US/10372076
; Publication No. US20030198645A1
; GENERAL INFORMATION:
; APPLICANT: Page, Mark
; APPLICANT: Friede, Martin
; TITLE OF INVENTION: STABILIZED HBc CHIMER PARTICLES AS THERAPEUTIC VACCINE
FOR
; TITLE OF INVENTION: CHRONIC HEPATITIS
; FILE REFERENCE: 4564/87179
; CURRENT APPLICATION NUMBER: US/10/372,076
; CURRENT FILING DATE: 2003-02-21
; PRIOR APPLICATION NUMBER: 10/080,299
; PRIOR FILING DATE: 2002-02-21
; PRIOR APPLICATION NUMBER: 10/082,014
; PRIOR FILING DATE: 2002-02-22
; NUMBER OF SEQ ID NOS: 308
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 85
;   LENGTH: 33
;   TYPE: PRT
;   ORGANISM: Alzheimer's disease b-Amyloid
US-10-372-076-85

  Query Match   85.4%; Score 35; DB 14; Length 33;
  Best Local Similarity   100.0%; Pred. No. 4.4;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LVFFAED 7
              |||||||
Db   17 LVFFAED 23

RESULT 36
US-09-867-847-3
; Sequence 3, Application US/09867847
; Patent No. US20020094335A1
; GENERAL INFORMATION:
; APPLICANT: Chalifour, Robert

```
;  APPLICANT:  Hebert, Lise
;  APPLICANT:  Kong, Xianqi
;  APPLICANT:  Gervais, Francine
;  TITLE OF INVENTION: VACCINE FOR THE PREVENTION AND TREATMENT OF ALZHEIMER'S
;  TITLE OF INVENTION:  AND AMYLOID RELATED DISEASES
;  FILE REFERENCE: 14445-501 CIP
;  CURRENT APPLICATION NUMBER: US/09/867,847
;  CURRENT FILING DATE:  2001-09-20
;  PRIOR APPLICATION NUMBER: 60/168,594
;  PRIOR FILING DATE: 1999-11-29
;  PRIOR APPLICATION NUMBER: 09/724,842
;  PRIOR FILING DATE: 2000-11-28
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
;   LENGTH: 35
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: All D peptides
;   OTHER INFORMATION: or peptidomimetics
US-09-867-847-3

  Query Match             85.4%;  Score 35;  DB 9;  Length 35;
  Best Local Similarity   100.0%;  Pred. No. 4.7;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 37
US-09-972-475-16
; Sequence 16, Application US/09972475
; Patent No. US20020098173A1
;   GENERAL INFORMATION:
;        APPLICANT: Findeis, Mark A. et al.
;        TITLE OF INVENTION: Modulators of Amyloid Aggregation
;        NUMBER OF SEQUENCES: 45
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: LAHIVE & COCKFIELD, LLP
;             STREET: 28 State Street
;             CITY: Boston
;             STATE: Massachusetts
;             COUNTRY: USA
;             ZIP: 02109-1875
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.25
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/972,475
;             FILING DATE: 04-Oct-2001
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 08/617,267
```

```
;              FILING DATE: <Unknown>
;              APPLICATION NUMBER: USSN 08/475,579
;              FILING DATE: 07-JUN-1995
;              APPLICATION NUMBER: USSN 08/548,998
;              FILING DATE: 27-OCT-1995
;         ATTORNEY/AGENT INFORMATION:
;              NAME: DeConti, Giulio A.
;              REGISTRATION NUMBER: 31,503
;              REFERENCE/DOCKET NUMBER: PPI-002CP2
;         TELECOMMUNICATION INFORMATION:
;              TELEPHONE: (617)227-7400
;              TELEFAX: (617)227-5941
;    INFORMATION FOR SEQ ID NO: 16:
;         SEQUENCE CHARACTERISTICS:
;              LENGTH: 35 amino acids
;              TYPE: amino acid
;              TOPOLOGY: linear
;         MOLECULE TYPE: peptide
;         FRAGMENT TYPE: internal
;         SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-09-972-475-16

  Query Match             85.4%;  Score 35;  DB 9;  Length 35;
  Best Local Similarity   100.0%;  Pred. No. 4.7;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         12 LVFFAED 18


RESULT 38
US-10-463-729-16
; Sequence 16, Application US/10463729
; Publication No. US20040005307A1
;  GENERAL INFORMATION:
;    APPLICANT:  Findeis, Mark A. et al.
;    TITLE OF INVENTION:  Modulators of Amyloid Aggregation
;    NUMBER OF SEQUENCES:  45
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD, LLP
;      STREET:  28 State Street
;      CITY:  Boston
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02109-1875
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/10/463,729
;      FILING DATE:  17-JUNE-2003
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/617,267C
;      FILING DATE:  14-MAR-1996
```

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;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  USSN 08/404,831
;       FILING DATE:  14-MAR-1995
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  USSN 08/475,579
;       FILING DATE:  07-JUN-1995
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  USSN 08/548,998
;       FILING DATE:  27-OCT-1995
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  DeConti, Giulio A.
;       REGISTRATION NUMBER:  31,503
;       REFERENCE/DOCKET NUMBER:  PPI-002CP2
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (617)227-7400
;       TELEFAX:  (617)227-5941
;   INFORMATION FOR SEQ ID NO:  16:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  35 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  peptide
;     FRAGMENT TYPE:  internal
US-10-463-729-16

  Query Match             85.4%;  Score 35;  DB 15;  Length 35;
  Best Local Similarity   100.0%;  Pred. No. 4.7;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         12 LVFFAED 18


RESULT 39
US-09-861-847-6
; Sequence 6, Application US/09861847
; Patent No. US20020077288A1
; GENERAL INFORMATION:
;  APPLICANT: FRANGIONE, Blas
;  APPLICANT:  WISNIEWSKI, Thomas
;  APPLICANT:  SIGURDSSON, Einar
;  TITLE OF INVENTION: SYNTHETIC IMMUNOGENIC BUT NON-AMYLOIDOGENIC PEPTIDES
HOMOLOGOUS TO
;  TITLE OF INVENTION:  AMYLOID BETA FOR INDUCTION OF AN IMMUNE RESPONSE TO
AMYLOID BETA AND
;  TITLE OF INVENTION:  AMYLOID DEPOSITS
;  FILE REFERENCE: FRANGIONE=2A
;  CURRENT APPLICATION NUMBER: US/09/861,847
;  CURRENT FILING DATE:  2001-05-22
;  PRIOR APPLICATION NUMBER: 60/016,233
;  PRIOR FILING DATE: 2000-05-22
;  NUMBER OF SEQ ID NOS: 14
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6
;   LENGTH: 36
;   TYPE: PRT
```

; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
; NAME/KEY: misc_feature
; OTHER INFORMATION: C-terminal residue 36 may be amidated.
US-09-861-847-6

  Query Match   85.4%; Score 35; DB 9; Length 36;
  Best Local Similarity   100.0%; Pred. No. 4.8;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LVFFAED 7
              |||||||
Db   23 LVFFAED 29

RESULT 40
US-09-861-847-11
; Sequence 11, Application US/09861847
; Patent No. US20020077288A1
; GENERAL INFORMATION:
; APPLICANT: FRANGIONE, Blas
; APPLICANT: WISNIEWSKI, Thomas
; APPLICANT: SIGURDSSON, Einar
; TITLE OF INVENTION: SYNTHETIC IMMUNOGENIC BUT NON-AMYLOIDOGENIC PEPTIDES HOMOLOGOUS TO
; TITLE OF INVENTION: AMYLOID BETA FOR INDUCTION OF AN IMMUNE RESPONSE TO AMYLOID BETA AND
; TITLE OF INVENTION: AMYLOID DEPOSITS
; FILE REFERENCE: FRANGIONE=2A
; CURRENT APPLICATION NUMBER: US/09/861,847
; CURRENT FILING DATE: 2001-05-22
; PRIOR APPLICATION NUMBER: 60/016,233
; PRIOR FILING DATE: 2000-05-22
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 11
; LENGTH: 36
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-09-861-847-11

  Query Match   85.4%; Score 35; DB 9; Length 36;
  Best Local Similarity   100.0%; Pred. No. 4.8;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LVFFAED 7
              |||||||
Db   17 LVFFAED 23

RESULT 41
US-10-301-488A-6
; Sequence 6, Application US/10301488A
; Publication No. US20030166558A1

; GENERAL INFORMATION:
; APPLICANT: FRANGIONE, Blas
; APPLICANT: WISNIEWSKI, Thomas
; APPLICANT: SIGURDSSON, Einar
; TITLE OF INVENTION: SYNTHETIC IMMUNOGENIC BUT NON-DEPOSIT-FORMING POLYPEPTIDES AND
; TITLE OF INVENTION: PEPTIDES HOMOLOGOUS TO AMYLOID BETA, PRION PROTEIN, AMYLIN,
; TITLE OF INVENTION: ALPHA-SYNUCLEIN, OR POLYGLUTAMINE REPEATS FOR INDUCTION OF AN
; TITLE OF INVENTION: IMMUNE RESPONSE THERETO
; FILE REFERENCE: 5986/1K434US1
; CURRENT APPLICATION NUMBER: US/10/301,488A
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 60/331,801
; PRIOR FILING DATE: 2001-11-21
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
; LENGTH: 36
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: C-terminal residue 36 may be amidated.
US-10-301-488A-6

Query Match 85.4%; Score 35; DB 14; Length 36;
Best Local Similarity 100.0%; Pred. No. 4.8;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LVFFAED 7
|||||||
Db 23 LVFFAED 29

RESULT 42
US-10-301-488A-11
; Sequence 11, Application US/10301488A
; Publication No. US20030166558A1
; GENERAL INFORMATION:
; APPLICANT: FRANGIONE, Blas
; APPLICANT: WISNIEWSKI, Thomas
; APPLICANT: SIGURDSSON, Einar
; TITLE OF INVENTION: SYNTHETIC IMMUNOGENIC BUT NON-DEPOSIT-FORMING POLYPEPTIDES AND
; TITLE OF INVENTION: PEPTIDES HOMOLOGOUS TO AMYLOID BETA, PRION PROTEIN, AMYLIN,
; TITLE OF INVENTION: ALPHA-SYNUCLEIN, OR POLYGLUTAMINE REPEATS FOR INDUCTION OF AN
; TITLE OF INVENTION: IMMUNE RESPONSE THERETO
; FILE REFERENCE: 5986/1K434US1
; CURRENT APPLICATION NUMBER: US/10/301,488A
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 60/331,801

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;  PRIOR FILING DATE: 2001-11-21
;  NUMBER OF SEQ ID NOS: 55
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
;   LENGTH: 36
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetic
US-10-301-488A-11

  Query Match             85.4%;  Score 35;  DB 14;  Length 36;
  Best Local Similarity   100.0%;  Pred. No. 4.8;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 43
US-10-051-496-5
; Sequence 5, Application US/10051496
; Publication No. US20020182660A1
;   GENERAL INFORMATION:
;        APPLICANT: Kei-Lai L. Fong
;        TITLE OF INVENTION: N- and C-Terminus Specific Immunoassays for
;                            Full Length Beta-Amyloid Peptide - Abeta(1-40),
Abeta(1-39),
;                            Abeta(1-41), Abeta(1-42) and Abeta (1-43)
;        NUMBER OF SEQUENCES: 5
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Kei-Lai L. Fong
;             STREET: 1004 West 8th Avenue
;             CITY: King of Prussia
;             STATE: Pennsylvania
;             COUNTRY: USA
;             ZIP: 19406
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: 3.50 inch, 1.44MB storage
;             COMPUTER: IBM PC Compatibles
;             OPERATING SYSTEM: Windows
;             SOFTWARE: MS No. US20020182660A1epad
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/10/051,496
;             FILING DATE: 18-Jan-2002
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US/09/784,854A
;             FILING DATE: 16-Feb-2001
;             APPLICATION NUMBER: 60/183,407
;             FILING DATE: 18-February-2000
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Koenig, C. Frederick III
;             REGISTRATION NUMBER: 29,662
;             REFERENCE/DOCKET NUMBER: PBI-PT001.1
;        TELECOMMUNICATION INFORMATION:
```

```
;             TELEPHONE: (215) 568-6400
;             TELEFAX: (215) 568-6499
;   INFORMATION FOR SEQ ID NO: 5:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 39 Amino Acid
;             TYPE: Amino Acid
;             TOPOLOGY: Linear
;        MOLECULE TYPE: Protein
;        FEATURE:
;             NAME/KEY:   Signal Sequence
;             LOCATION:   1-39
;             IDENTIFICATION METHOD:   Similarity to other sequences, hydro-
phobic
;             OTHER INFORMATION:
;        PUBLICATION INFORMATION:
;             AUTHORS:
;             TITLE:
;             JOURNAL:
;             VOLUME:
;             ISSUE:
;             PAGES:
;             DATE:
;             RELEVANT RESIDUES IN SEQ ID NO:   5:FROM 1-39
;        SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-10-051-496-5

  Query Match             85.4%;  Score 35;  DB 13;  Length 39;
  Best Local Similarity   100.0%;  Pred. No. 5.2;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 44
US-10-190-548A-5
; Sequence 5, Application US/10190548A
; Publication No. US20030109435A1
; GENERAL INFORMATION:
;  APPLICANT: Griswold Prenner, Irene
;  APPLICANT:  Wright, Sarah
;  APPLICANT:  Yednock, Theodore
;  APPLICANT:  Rydel, Russell
;  TITLE OF INVENTION: Methods of Inhibiting Amyloid Toxicity
;  FILE REFERENCE: 08576.0030-00
;  CURRENT APPLICATION NUMBER: US/10/190,548A
;  CURRENT FILING DATE:  2002-12-09
;  NUMBER OF SEQ ID NOS: 5
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
;   LENGTH: 39
;   TYPE: PRT
;   ORGANISM: homo sapiens
US-10-190-548A-5

  Query Match             85.4%;  Score 35;  DB 14;  Length 39;
```

Best Local Similarity 100.0%; Pred. No. 5.2;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23
```

RESULT 45
US-09-861-847-7
; Sequence 7, Application US/09861847
; Patent No. US20020077288A1
; GENERAL INFORMATION:
; APPLICANT: FRANGIONE, Blas
; APPLICANT: WISNIEWSKI, Thomas
; APPLICANT: SIGURDSSON, Einar
; TITLE OF INVENTION: SYNTHETIC IMMUNOGENIC BUT NON-AMYLOIDOGENIC PEPTIDES HOMOLOGOUS TO
; TITLE OF INVENTION: AMYLOID BETA FOR INDUCTION OF AN IMMUNE RESPONSE TO AMYLOID BETA AND
; TITLE OF INVENTION: AMYLOID DEPOSITS
; FILE REFERENCE: FRANGIONE=2A
; CURRENT APPLICATION NUMBER: US/09/861,847
; CURRENT FILING DATE: 2001-05-22
; PRIOR APPLICATION NUMBER: 60/016,233
; PRIOR FILING DATE: 2000-05-22
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7
; LENGTH: 40
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
; NAME/KEY: misc_feature
; OTHER INFORMATION: Amino acid residues 1-6 can either be absent or present as Lys or
; OTHER INFORMATION: Asp to form, in combination with residues 7-10, a N-terminal
; OTHER INFORMATION: polylysine or polyaspartate segment of 4-10 residues in length.
; NAME/KEY: misc_feature
; OTHER INFORMATION: The C-terminal Ala residue may be amidated.
US-09-861-847-7

Query Match 85.4%; Score 35; DB 9; Length 40;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 LVFFAED 7
              |||||||
Db         27 LVFFAED 33
```

RESULT 46
US-09-861-847-8
; Sequence 8, Application US/09861847

; Patent No. US20020077288A1
; GENERAL INFORMATION:
; APPLICANT: FRANGIONE, Blas
; APPLICANT: WISNIEWSKI, Thomas
; APPLICANT: SIGURDSSON, Einar
; TITLE OF INVENTION: SYNTHETIC IMMUNOGENIC BUT NON-AMYLOIDOGENIC PEPTIDES HOMOLOGOUS TO
; TITLE OF INVENTION: AMYLOID BETA FOR INDUCTION OF AN IMMUNE RESPONSE TO AMYLOID BETA AND
; TITLE OF INVENTION: AMYLOID DEPOSITS
; FILE REFERENCE: FRANGIONE=2A
; CURRENT APPLICATION NUMBER: US/09/861,847
; CURRENT FILING DATE: 2001-05-22
; PRIOR APPLICATION NUMBER: 60/016,233
; PRIOR FILING DATE: 2000-05-22
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 8
; LENGTH: 40
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
; NAME/KEY: misc_feature
; OTHER INFORMATION: Amino acid residues 35-40 can either be absent or present as Lys
; OTHER INFORMATION: or Asp to form, in combination with residues 31-34, a C-terminal
; OTHER INFORMATION: polylysine or polyaspartate segment of 4-10 residues in length.
US-09-861-847-8

Query Match 85.4%; Score 35; DB 9; Length 40;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23
```

RESULT 47
US-09-867-847-2
; Sequence 2, Application US/09867847
; Patent No. US20020094335A1
; GENERAL INFORMATION:
; APPLICANT: Chalifour, Robert
; APPLICANT: Hebert, Lise
; APPLICANT: Kong, Xianqi
; APPLICANT: Gervais, Francine
; TITLE OF INVENTION: VACCINE FOR THE PREVENTION AND TREATMENT OF ALZHEIMER'S
; TITLE OF INVENTION: AND AMYLOID RELATED DISEASES
; FILE REFERENCE: 14445-501 CIP
; CURRENT APPLICATION NUMBER: US/09/867,847
; CURRENT FILING DATE: 2001-09-20
; PRIOR APPLICATION NUMBER: 60/168,594
; PRIOR FILING DATE: 1999-11-29

```
;  PRIOR APPLICATION NUMBER: 09/724,842
;  PRIOR FILING DATE: 2000-11-28
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
;   LENGTH: 40
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: All D peptides
;   OTHER INFORMATION: or peptidomimetics
US-09-867-847-2

  Query Match             85.4%;  Score 35;  DB 9;  Length 40;
  Best Local Similarity   100.0%;  Pred. No. 5.4;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 48
US-09-988-842-3
; Sequence 3, Application US/09988842
; Patent No. US20020143105A1
; GENERAL INFORMATION:
;  APPLICANT: Johansson, Jan
;  TITLE OF INVENTION: DISCORDANT HELIX STABILIZATION FOR PREVENTION
;  TITLE OF INVENTION:  OF AMYLOID FORMATION
;  FILE REFERENCE: 12125-002001
;  CURRENT APPLICATION NUMBER: US/09/988,842
;  CURRENT FILING DATE:  2001-11-19
;  PRIOR APPLICATION NUMBER: US 60/251,662
;  PRIOR FILING DATE: 2000-12-06
;  PRIOR APPLICATION NUMBER: US 60/253,695
;  PRIOR FILING DATE: 2000-11-20
;  NUMBER OF SEQ ID NOS: 26
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
;   LENGTH: 40
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetically generated peptide
US-09-988-842-3

  Query Match             85.4%;  Score 35;  DB 9;  Length 40;
  Best Local Similarity   100.0%;  Pred. No. 5.4;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 49
```

US-09-851-071-3
; Sequence 3, Application US/09851071
; Patent No. US20020177550A1
; GENERAL INFORMATION:
; APPLICANT: Schmidt, Anne Marie
; APPLICANT: Stern, David
; TITLE OF INVENTION: A METHOD FOR INHIBITING TUMOR INVASION OR SPREADING IN A SUBJECT
; FILE REFERENCE: 0575/55424-Z/JPW/SHS/MVM
; CURRENT APPLICATION NUMBER: US/09/851,071
; CURRENT FILING DATE: 2001-05-08
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 40
;   TYPE: PRT
;   ORGANISM: Human
US-09-851-071-3

  Query Match   85.4%; Score 35; DB 9; Length 40;
  Best Local Similarity   100.0%; Pred. No. 5.4;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LVFFAED 7
              |||||||
Db   17 LVFFAED 23

RESULT 50
US-09-962-955C-36
; Sequence 36, Application US/09962955C
; Publication No. US20030013648A1
; GENERAL INFORMATION:
;   APPLICANT: Gerardo M. Castillo
;   APPLICANT: Alan D. Snow
;   NUMBER OF SEQUENCES: 37
;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE: Patrick M. Dwyer
;   STREET: ProteoTech, Inc, 1818 Westlake Avenue N, Suite 114
;   CITY: Seattle
;   STATE: WA (Washington)
;   COUNTRY: United States of America
;   ZIP: 98109
;   COMPUTER READABLE FORM:
;   MEDIUM TYPE: Diskette - 3.50 inch, 1.44 Mb storage
;   COMPUTER: IBM PC
;   OPERATING SYSTEM: Windows 98
;   SOFTWARE: WordPerfect 9
;   CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/09/962,955C
;   FILING DATE: 24-September-2001
;   CLASSIFICATION:
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: 09/938,275
;   FILING DATE: 22-August-2001
;   CLASSIFICATION:
;   ATTORNEY/AGENT INFORMATION:

```
;       NAME:  Dwyer, Patrick M.
;       REGISTRATION NUMBER:  32,411
;       REFERENCE/DOCKET NUMBER:  PROTEO.P03CI
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (206) 343-7074
;       TELEFAX:  (206) 343-7085
;   INFORMATION FOR SEQ ID NO:  36:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  40 AMINO ACIDS
;       TYPE:  AMINO ACID
;       STRANDEDNESS:
;       TOPOLOGY:  LINEAR
;     ORIGINAL SOURCE:
;       ORGANISM:  MOUSE
;     FEATURE:
;       OTHER INFORMATION:  Also referred to in the specification as "AB 1-40"
US-09-962-955C-36

  Query Match             85.4%;  Score 35;  DB 10;  Length 40;
  Best Local Similarity   100.0%;  Pred. No. 5.4;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 51
US-09-792-079-12
; Sequence 12, Application US/09792079
; Publication No. US20030083277A1
; GENERAL INFORMATION:
;  APPLICANT: University of Kentucky Research Foundation
;  APPLICANT:  Hersh, Louis B.
;  APPLICANT:  Mukherjee, Atish
;  TITLE OF INVENTION: Use Of Insulin Degrading Enzyme (IDE) For The Treatment
Of Alzheimer's
;  TITLE OF INVENTION:  Disease Patients
;  FILE REFERENCE: 050229-0261
;  CURRENT APPLICATION NUMBER: US/09/792,079
;  CURRENT FILING DATE:  2001-02-26
;  PRIOR APPLICATION NUMBER: 60/184,826
;  PRIOR FILING DATE: 2000-02-24
;  NUMBER OF SEQ ID NOS: 13
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 12
;   LENGTH: 40
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-792-079-12

  Query Match             85.4%;  Score 35;  DB 10;  Length 40;
  Best Local Similarity   100.0%;  Pred. No. 5.4;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
```

```
Db          17 LVFFAED 23


RESULT 52
US-10-007-779A-1
; Sequence 1, Application US/10007779A
; Publication No. US20020168753A1
;   GENERAL INFORMATION:
;        APPLICANT: Castillo, Gerardo and Snow, Alan
;        TITLE OF INVENTION: In Vitro Formation of Congophilic
;                            Maltese-Cross Amyloid Plaques to Identify Anti-
Plaque
;                            Therapeutics for the Treatment of Alzheimer's and
Prion Diseases
;        NUMBER OF SEQUENCES: 1
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Patrick M. Dwyer
;             STREET: ProteoTech, Inc., 1818 Westlake Ave N, Suite 114
;             CITY: Seattle
;             STATE: WA (Washington)
;             COUNTRY: USA
;             ZIP: 98109
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: 3.5 inch diskette
;             COMPUTER: PC
;             OPERATING SYSTEM: Windows 98
;             SOFTWARE: WordPerfect 9
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/10/007,779A
;             FILING DATE: 28-Apr-2002
;             CLASSIFICATION: Unknown
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 09/267,795
;             FILING DATE: 12-March-1999
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Dwyer, Patrick M.
;             REGISTRATION NUMBER: 32,411
;             REFERENCE/DOCKET NUMBER: PROTEO.P08
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (206) 343-7074
;             TELEFAX: (206) 343-7085
;   INFORMATION FOR SEQ ID NO: 1:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 40 AMINO ACIDS
;             TYPE: AMINO ACID
;             STRANDEDNESS: <Unknown>
;             TOPOLOGY: LINEAR
;        MOLECULE TYPE: PROTEIN
;        SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-10-007-779A-1

  Query Match             85.4%;  Score 35;  DB 13;  Length 40;
  Best Local Similarity   100.0%;  Pred. No. 5.4;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
```

```
Db          17 LVFFAED 23


RESULT 53
US-10-051-496-4
; Sequence 4, Application US/10051496
; Publication No. US20020182660A1
;   GENERAL INFORMATION:
;        APPLICANT: Kei-Lai L. Fong
;        TITLE OF INVENTION: N- and C-Terminus Specific Immunoassays for
;                            Full Length Beta-Amyloid Peptide - Abeta(1-40),
Abeta(1-39),
;                            Abeta(1-41), Abeta(1-42) and Abeta (1-43)
;        NUMBER OF SEQUENCES: 5
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Kei-Lai L. Fong
;             STREET: 1004 West 8th Avenue
;             CITY: King of Prussia
;             STATE: Pennsylvania
;             COUNTRY: USA
;             ZIP: 19406
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: 3.50 inch, 1.44MB storage
;             COMPUTER: IBM PC Compatibles
;             OPERATING SYSTEM: Windows
;             SOFTWARE: MS No. US20020182660A1epad
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/10/051,496
;             FILING DATE: 18-Jan-2002
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US/09/784,854A
;             FILING DATE: 16-Feb-2001
;             APPLICATION NUMBER: 60/183,407
;             FILING DATE: 18-February-2000
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Koenig, C. Frederick III
;             REGISTRATION NUMBER: 29,662
;             REFERENCE/DOCKET NUMBER: PBI-PT001.1
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (215) 568-6400
;             TELEFAX: (215) 568-6499
;   INFORMATION FOR SEQ ID NO: 4:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 40 Amino Acid
;             TYPE: Amino Acid
;             TOPOLOGY: Linear
;        MOLECULE TYPE: Protein
;        FEATURE:
;             NAME/KEY:   Signal Sequence
;             LOCATION:   1-40
;             IDENTIFICATION METHOD:   Similarity to other sequences, hydro-
phobic
;             OTHER INFORMATION:
;        PUBLICATION INFORMATION:
;             AUTHORS:
;             TITLE:
```

```
;              JOURNAL:
;              VOLUME:
;              ISSUE:
;              PAGES:
;              DATE:
;              RELEVANT RESIDUES IN SEQ ID NO: 4:FROM 1-40
;         SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-051-496-4

  Query Match             85.4%;  Score 35;  DB 13;  Length 40;
  Best Local Similarity   100.0%;  Pred. No. 5.4;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 54
US-10-217-584-3
; Sequence 3, Application US/10217584
; Publication No. US20030077261A1
; GENERAL INFORMATION:
;  APPLICANT: Paris, Daniel
;  APPLICANT:  Mullan, Michael
;  TITLE OF INVENTION: Modulation of Angiogenesis by A-Beta Peptides
;  FILE REFERENCE: USF-T161XC1
;  CURRENT APPLICATION NUMBER: US/10/217,584
;  CURRENT FILING DATE:  2002-08-12
;  PRIOR APPLICATION NUMBER: 60/311,656
;  PRIOR FILING DATE: 2001-08-10
;  NUMBER OF SEQ ID NOS: 11
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 40
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(40)
;   OTHER INFORMATION: A-beta 1-40 peptide
US-10-217-584-3

  Query Match             85.4%;  Score 35;  DB 14;  Length 40;
  Best Local Similarity   100.0%;  Pred. No. 5.4;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 55
US-10-169-580-1
; Sequence 1, Application US/10169580
; Publication No. US20030100477A1
; GENERAL INFORMATION:
```

; APPLICANT: Yamanouchi Pharmaceutical Co., Ltd.
; TITLE OF INVENTION: PHARMACEUTICAL COMPOSITIONS FOR SUPPRESSING B-AMYLOID PRODUCTION
; FILE REFERENCE: Q70898
; CURRENT APPLICATION NUMBER: US/10/169,580
; CURRENT FILING DATE: 2002-07-08
; PRIOR APPLICATION NUMBER: 2000-131037
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: PCT/JP01/03555
; PRIOR FILING DATE: 2001-04-25
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 40
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-169-580-1

Query Match 85.4%; Score 35; DB 14; Length 40;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LVFFAED 7
|||||||
Db 17 LVFFAED 23

RESULT 56
US-10-143-534-3
; Sequence 3, Application US/10143534
; Publication No. US20030105152A1
; GENERAL INFORMATION:
; APPLICANT: Ingram, Vernon M.
; APPLICANT: Blanchard, Barbara J.
; APPLICANT: Stockwell, Brent R.
; TITLE OF INVENTION: TREATMENTS FOR NEUROTOXICITY IN ALZHEIMER'S DISEASE
; FILE REFERENCE: M00656/70078
; CURRENT APPLICATION NUMBER: US/10/143,534
; CURRENT FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: US 10/051,663
; PRIOR FILING DATE: 2002-01-18
; PRIOR APPLICATION NUMBER: US 09/706,574
; PRIOR FILING DATE: 2000-11-03
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn Version 3.0
; SEQ ID NO 3
; LENGTH: 40
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Peptide
US-10-143-534-3

Query Match 85.4%; Score 35; DB 14; Length 40;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 57
US-10-190-548A-4
; Sequence 4, Application US/10190548A
; Publication No. US20030109435A1
; GENERAL INFORMATION:
;  APPLICANT: Griswold Prenner, Irene
;  APPLICANT:  Wright, Sarah
;  APPLICANT:  Yednock, Theodore
;  APPLICANT:  Rydel, Russell
;  TITLE OF INVENTION: Methods of Inhibiting Amyloid Toxicity
;  FILE REFERENCE: 08576.0030-00
;  CURRENT APPLICATION NUMBER: US/10/190,548A
;  CURRENT FILING DATE:  2002-12-09
;  NUMBER OF SEQ ID NOS: 5
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
;   LENGTH: 40
;   TYPE: PRT
;   ORGANISM: homo sapiens
US-10-190-548A-4

  Query Match             85.4%;  Score 35;  DB 14;  Length 40;
  Best Local Similarity   100.0%;  Pred. No. 5.4;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 58
US-10-051-663-3
; Sequence 3, Application US/10051663
; Publication No. US20030114510A1
; GENERAL INFORMATION:
;  APPLICANT: Ingram, Vernon M.
;  APPLICANT:  Blanchard, Barbara J.
;  APPLICANT:  Stockwell, Brent R.
;  TITLE OF INVENTION: TREATMENTS FOR NEUROTOXICITY IN ALZHEIMER'S DISEASE
;  FILE REFERENCE: M0656/7071
;  CURRENT APPLICATION NUMBER: US/10/051,663
;  CURRENT FILING DATE:  2002-01-18
;  PRIOR APPLICATION NUMBER: US 09/706,574
;  PRIOR FILING DATE: 2000-11-03
;  NUMBER OF SEQ ID NOS: 3
;  SOFTWARE: PatentIn Version 3.0
; SEQ ID NO 3
;   LENGTH: 40
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetic Peptide
```

US-10-051-663-3

  Query Match   85.4%; Score 35; DB 14; Length 40;
  Best Local Similarity   100.0%; Pred. No. 5.4;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LVFFAED 7
              |||||||
Db   17 LVFFAED 23

RESULT 59
US-10-151-614-1
; Sequence 1, Application US/10151614
; Publication No. US20030147811A1
; GENERAL INFORMATION:
; APPLICANT: WISNIEWSKI, Thomas
; APPLICANT: TURNBULL, Daniel
; APPLICANT: SIGURDSSON, Einar
; APPLICANT: ZAIM WADGHIRI, Youssef
; TITLE OF INVENTION: DETECTION OF ALZHEIMER'S AMYLOID BY MAGNETIC RESONANCE
; FILE REFERENCE: WISNIEWSKI 2A
; CURRENT APPLICATION NUMBER: US/10/151,614
; CURRENT FILING DATE: 2002-05-23
; PRIOR APPLICATION NUMBER: US 60/292,625
; PRIOR FILING DATE: 2001-05-23
; NUMBER OF SEQ ID NOS: 1
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;   LENGTH: 40
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-151-614-1

  Query Match   85.4%; Score 35; DB 14; Length 40;
  Best Local Similarity   100.0%; Pred. No. 5.4;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LVFFAED 7
              |||||||
Db   17 LVFFAED 23

RESULT 60
US-10-159-279-12
; Sequence 12, Application US/10159279
; Publication No. US20030165481A1
; GENERAL INFORMATION:
; APPLICANT: University of Kentucky Research Foundation
; APPLICANT: Hersh, Louis B.
; APPLICANT: Mukherjee, Atish
; TITLE OF INVENTION: Use Of Insulin Degrading Enzyme (IDE) For The Treatment
Of Alzheimer's
; TITLE OF INVENTION: Disease Patients
; FILE REFERENCE: 050229-0298
; CURRENT APPLICATION NUMBER: US/10/159,279
; CURRENT FILING DATE: 2002-06-03

; PRIOR APPLICATION NUMBER: 60/184,826
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 09/792,079
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 12
;   LENGTH: 40
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-159-279-12

  Query Match   85.4%; Score 35; DB 14; Length 40;
  Best Local Similarity   100.0%; Pred. No. 5.4;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LVFFAED 7
              |||||||
Db   17 LVFFAED 23

RESULT 61
US-10-301-488A-7
; Sequence 7, Application US/10301488A
; Publication No. US20030166558A1
; GENERAL INFORMATION:
; APPLICANT: FRANGIONE, Blas
; APPLICANT: WISNIEWSKI, Thomas
; APPLICANT: SIGURDSSON, Einar
; TITLE OF INVENTION: SYNTHETIC IMMUNOGENIC BUT NON-DEPOSIT-FORMING
POLYPEPTIDES AND
; TITLE OF INVENTION: PEPTIDES HOMOLOGOUS TO AMYLOID BETA, PRION PROTEIN,
AMYLIN,
; TITLE OF INVENTION: ALPHA-SYNUCLEIN, OR POLYGLUTAMINE REPEATS FOR INDUCTION
OF AN
; TITLE OF INVENTION: IMMUNE RESPONSE THERETO
; FILE REFERENCE: 5986/1K434US1
; CURRENT APPLICATION NUMBER: US/10/301,488A
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 60/331,801
; PRIOR FILING DATE: 2001-11-21
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
;   LENGTH: 40
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetic
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(10)
;   OTHER INFORMATION: Amino acid residues 1-6 can either be absent or present
as Lys or
;   OTHER INFORMATION: Asp to form, in combination with residues 7-10, a N-
terminal

; OTHER INFORMATION: polylysine or polyaspartate segment of 4 to10 residues in length.
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: The C-terminal Ala residue may be amidated.
US-10-301-488A-7

  Query Match 85.4%; Score 35; DB 14; Length 40;
  Best Local Similarity 100.0%; Pred. No. 5.4;
  Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LVFFAED 7
      |||||||
Db 27 LVFFAED 33

RESULT 62
US-10-301-488A-8
; Sequence 8, Application US/10301488A
; Publication No. US20030166558A1
; GENERAL INFORMATION:
; APPLICANT: FRANGIONE, Blas
; APPLICANT: WISNIEWSKI, Thomas
; APPLICANT: SIGURDSSON, Einar
; TITLE OF INVENTION: SYNTHETIC IMMUNOGENIC BUT NON-DEPOSIT-FORMING POLYPEPTIDES AND
; TITLE OF INVENTION: PEPTIDES HOMOLOGOUS TO AMYLOID BETA, PRION PROTEIN, AMYLIN,
; TITLE OF INVENTION: ALPHA-SYNUCLEIN, OR POLYGLUTAMINE REPEATS FOR INDUCTION OF AN
; TITLE OF INVENTION: IMMUNE RESPONSE THERETO
; FILE REFERENCE: 5986/1K434US1
; CURRENT APPLICATION NUMBER: US/10/301,488A
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 60/331,801
; PRIOR FILING DATE: 2001-11-21
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 8
; LENGTH: 40
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (31)..(40)
; OTHER INFORMATION: Amino acid residues 35-40 can either be absent or present as Lys
; OTHER INFORMATION: or Asp to form, in combination with residues 31-34, a C-terminal
; OTHER INFORMATION: polylysine or polyaspartate segment of 4-10 residues in length.
US-10-301-488A-8

  Query Match 85.4%; Score 35; DB 14; Length 40;
  Best Local Similarity 100.0%; Pred. No. 5.4;

```
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 63
US-10-366-125-27
; Sequence 27, Application US/10366125
; Publication No. US20030228259A1
; GENERAL INFORMATION:
;  APPLICANT: Hellerstein, Marc
;  TITLE OF INVENTION: MEASUREMENT OF BIOSYNTHESIS AND BREAKDOWN RATES OF
;  TITLE OF INVENTION:  BIOLOGICAL MOLECULES THAT ARE INACCESSIBLE OR NOT
;  TITLE OF INVENTION:  EASILY ACCESSIBLE TO DIRECT SAMPLING, NON-INVASIVELY,
;  TITLE OF INVENTION:  BY LABEL INCORPORATION INTO METABOLIC DERIVATIVES AND
;  TITLE OF INVENTION:  CATABOLITIC PRODUCTS
;  FILE REFERENCE: 416272003500
;  CURRENT APPLICATION NUMBER: US/10/366,125
;  CURRENT FILING DATE:  2003-02-12
;  PRIOR APPLICATION NUMBER: US 60/356,008
;  PRIOR FILING DATE: 2002-02-12
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 27
;   LENGTH: 40
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-366-125-27

  Query Match             85.4%;  Score 35;  DB 15;  Length 40;
  Best Local Similarity   100.0%;  Pred. No. 5.4;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 64
US-10-051-496-3
; Sequence 3, Application US/10051496
; Publication No. US20020182660A1
;   GENERAL INFORMATION:
;        APPLICANT: Kei-Lai L. Fong
;        TITLE OF INVENTION: N- and C-Terminus Specific Immunoassays for
;                            Full Length Beta-Amyloid Peptide - Abeta(1-40),
Abeta(1-39),
;                            Abeta(1-41), Abeta(1-42) and Abeta (1-43)
;        NUMBER OF SEQUENCES: 5
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Kei-Lai L. Fong
;             STREET: 1004 West 8th Avenue
;             CITY: King of Prussia
;             STATE: Pennsylvania
;             COUNTRY: USA
```

```
;             ZIP: 19406
;         COMPUTER READABLE FORM:
;             MEDIUM TYPE: 3.50 inch, 1.44MB storage
;             COMPUTER: IBM PC Compatibles
;             OPERATING SYSTEM: Windows
;             SOFTWARE: MS No. US20020182660A1epad
;         CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/10/051,496
;             FILING DATE: 18-Jan-2002
;             CLASSIFICATION: <Unknown>
;         PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US/09/784,854A
;             FILING DATE: 16-Feb-2001
;             APPLICATION NUMBER: 60/183,407
;             FILING DATE: 18-February-2000
;         ATTORNEY/AGENT INFORMATION:
;             NAME: Koenig, C. Frederick III
;             REGISTRATION NUMBER: 29,662
;             REFERENCE/DOCKET NUMBER: PBI-PT001.1
;         TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (215) 568-6400
;             TELEFAX: (215) 568-6499
;    INFORMATION FOR SEQ ID NO: 3:
;         SEQUENCE CHARACTERISTICS:
;             LENGTH: 41 Amino Acid
;             TYPE: Amino Acid
;             TOPOLOGY: Linear
;         MOLECULE TYPE: Protein
;         FEATURE:
;             NAME/KEY:   Signal Sequence
;             LOCATION:   1-41
;             IDENTIFICATION METHOD:   Similarity to other sequences, hydro-
phobic
;             OTHER INFORMATION:
;         PUBLICATION INFORMATION:
;             AUTHORS:
;             TITLE:
;             JOURNAL:
;             VOLUME:
;             ISSUE:
;             PAGES:
;             DATE:
;             RELEVANT RESIDUES IN SEQ ID NO: 3:FROM 1-41
;         SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-10-051-496-3

  Query Match             85.4%;  Score 35;  DB 13;  Length 41;
  Best Local Similarity   100.0%;  Pred. No. 5.5;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 65
US-10-190-548A-3
```

; Sequence 3, Application US/10190548A
; Publication No. US20030109435A1
; GENERAL INFORMATION:
; APPLICANT: Griswold Prenner, Irene
; APPLICANT: Wright, Sarah
; APPLICANT: Yednock, Theodore
; APPLICANT: Rydel, Russell
; TITLE OF INVENTION: Methods of Inhibiting Amyloid Toxicity
; FILE REFERENCE: 08576.0030-00
; CURRENT APPLICATION NUMBER: US/10/190,548A
; CURRENT FILING DATE: 2002-12-09
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 41
;   TYPE: PRT
;   ORGANISM: homo sapiens
US-10-190-548A-3

  Query Match   85.4%; Score 35; DB 14; Length 41;
  Best Local Similarity   100.0%; Pred. No. 5.5;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LVFFAED 7
              |||||||
Db   17 LVFFAED 23

RESULT 66
US-08-923-055-2
; Sequence 2, Application US/08923055
; Publication No. US20010016327A1
; GENERAL INFORMATION:
;   APPLICANT: Dana Giulian
;   TITLE OF INVENTION: Identification of Agents that Protect
;   TITLE OF INVENTION: Against Inflammatory Injury to Neurons
;   NUMBER OF SEQUENCES: 2
;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz
;   ADDRESSEE: & No. US20010016327A1ris LLP
;   STREET: One Liberty Place - 46th Floor
;   CITY: Philadelphia
;   STATE: PA
;   COUNTRY: USA
;   ZIP: 19103
;   COMPUTER READABLE FORM:
;   MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE
;   COMPUTER: IBM PS/2
;   OPERATING SYSTEM: PC-DOS
;   SOFTWARE: WORDPERFECT for WINDOWS 6.0
;   CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/08/923,055
;   FILING DATE: Sept-03-97
;   CLASSIFICATION: 435
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER:
;   FILING DATE:

```
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Lori Y. Beardell
;      REGISTRATION NUMBER:  34,293
;      REFERENCE/DOCKET NUMBER:  BYLR-0038
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (215) 568-3100
;      TELEFAX:  (215) 568-3439
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  42 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-923-055-2

  Query Match             85.4%;  Score 35;  DB 8;  Length 42;
  Best Local Similarity   100.0%;  Pred. No. 5.6;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 67
US-09-867-847-1
; Sequence 1, Application US/09867847
; Patent No. US20020094335A1
; GENERAL INFORMATION:
;  APPLICANT: Chalifour, Robert
;  APPLICANT:  Hebert, Lise
;  APPLICANT:  Kong, Xianqi
;  APPLICANT:  Gervais, Francine
;  TITLE OF INVENTION: VACCINE FOR THE PREVENTION AND TREATMENT OF ALZHEIMER'S
;  TITLE OF INVENTION:  AND AMYLOID RELATED DISEASES
;  FILE REFERENCE: 14445-501 CIP
;  CURRENT APPLICATION NUMBER: US/09/867,847
;  CURRENT FILING DATE:  2001-09-20
;  PRIOR APPLICATION NUMBER: 60/168,594
;  PRIOR FILING DATE: 1999-11-29
;  PRIOR APPLICATION NUMBER: 09/724,842
;  PRIOR FILING DATE: 2000-11-28
;  NUMBER OF SEQ ID NOS: 65
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 42
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: All D peptides
;   OTHER INFORMATION: or peptidomimetics
US-09-867-847-1

  Query Match             85.4%;  Score 35;  DB 9;  Length 42;
  Best Local Similarity   100.0%;  Pred. No. 5.6;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
```

```
Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 68
US-09-956-625-26
; Sequence 26, Application US/09956625
; Patent No. US20020119926A1
; GENERAL INFORMATION:
;  APPLICANT: Fraser, Paul
;  TITLE OF INVENTION: Inhibitors of IAPP Fibril Formation and Uses Thereof
;  FILE REFERENCE: 14445-503
;  CURRENT APPLICATION NUMBER: US/09/956,625
;  CURRENT FILING DATE:  2001-09-19
;  PRIOR APPLICATION NUMBER: 60/233,482
;  PRIOR FILING DATE: 2000-09-19
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 26
;   LENGTH: 42
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-956-625-26

  Query Match             85.4%;  Score 35;  DB 9;  Length 42;
  Best Local Similarity   100.0%;  Pred. No. 5.6;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 69
US-09-731-460-1
; Sequence 1, Application US/09731460
; Patent No. US20020137112A1
; GENERAL INFORMATION:
;  APPLICANT:  Chojkier, Mario
;  APPLICANT:  Buck, Martina
;  TITLE OF INVENTION:  Compositions and Methods for Diagnosing Alzheimer's
;  TITLE OF INVENTION:  Disease
;  FILE REFERENCE:  CHOJKIER-04302
;  CURRENT APPLICATION NUMBER: US/09/731,460
;  CURRENT FILING DATE:  2000-12-07
;  NUMBER OF SEQ ID NOS:  1
;  SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 1
;   LENGTH: 42
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence:  Synthetic
US-09-731-460-1

  Query Match             85.4%;  Score 35;  DB 9;  Length 42;
```

```
  Best Local Similarity   100.0%;  Pred. No. 5.6;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 70
US-09-962-955C-37
; Sequence 37, Application US/09962955C
; Publication No. US20030013648A1
;  GENERAL INFORMATION:
;    APPLICANT:  Gerardo M. Castillo
;    APPLICANT:  Alan D. Snow
;    NUMBER OF SEQUENCES:  37
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Patrick M. Dwyer
;      STREET:  ProteoTech, Inc, 1818 Westlake Avenue N, Suite 114
;      CITY:  Seattle
;      STATE:  WA (Washington)
;      COUNTRY:  United States of America
;      ZIP:  98109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette - 3.50 inch, 1.44 Mb storage
;      COMPUTER:  IBM PC
;      OPERATING SYSTEM:  Windows 98
;      SOFTWARE:  WordPerfect 9
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/962,955C
;      FILING DATE:  24-September-2001
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  09/938,275
;      FILING DATE:  22-August-2001
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Dwyer, Patrick M.
;      REGISTRATION NUMBER:  32,411
;      REFERENCE/DOCKET NUMBER:  PROTEO.P03CI
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206) 343-7074
;      TELEFAX:  (206) 343-7085
;  INFORMATION FOR SEQ ID NO:  37:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  42 AMINO ACIDS
;      TYPE:  AMINO ACID
;      STRANDEDNESS:
;      TOPOLOGY:  LINEAR
;    ORIGINAL SOURCE:
;      ORGANISM:  MOUSE
;    FEATURE:
;      OTHER INFORMATION:  Also referred to in the specification as "AB 1-42"
US-09-962-955C-37

  Query Match             85.4%;  Score 35;  DB 10;  Length 42;
  Best Local Similarity   100.0%;  Pred. No. 5.6;
```

```
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 71
US-09-848-616-174
; Sequence 174, Application US/09848616
; Publication No. US20030054010A1
; GENERAL INFORMATION:
;  APPLICANT: Sebbel, Peter
;  APPLICANT:  Dunant, Nicolas
;  APPLICANT:  Bachmann, Martin
;  APPLICANT:  Tissot, Alain
;  APPLICANT:  Lechner, Franziska
;  TITLE OF INVENTION: Molecular Antigen Array
;  FILE REFERENCE: 1700.0180002
;  CURRENT APPLICATION NUMBER: US/09/848,616
;  CURRENT FILING DATE:  2001-05-05
;  NUMBER OF SEQ ID NOS: 186
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 174
;   LENGTH: 42
;   TYPE: PRT
;   ORGANISM: Unknown
;   FEATURE:
;   OTHER INFORMATION: Amyloid Beta Peptide
US-09-848-616-174

  Query Match             85.4%;  Score 35;  DB 10;  Length 42;
  Best Local Similarity   100.0%;  Pred. No. 5.6;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 72
US-09-865-294-65
; Sequence 65, Application US/09865294
; Publication No. US20030068325A1
; GENERAL INFORMATION:
;  APPLICANT: Wang, Chang Yi
;  TITLE OF INVENTION: Immunogenic peptide composition as vaccines for the
;  TITLE OF INVENTION:  prevention and treatment of Alzheimer's Disease
;  FILE REFERENCE: 1151-4167
;  CURRENT APPLICATION NUMBER: US/09/865,294
;  CURRENT FILING DATE:  2001-05-25
;  NUMBER OF SEQ ID NOS: 76
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 65
;   LENGTH: 42
;   TYPE: PRT
;   ORGANISM: Homo sapiens
```

US-09-865-294-65

  Query Match   85.4%; Score 35; DB 10; Length 42;
  Best Local Similarity   100.0%; Pred. No. 5.6;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LVFFAED 7
              |||||||
Db   17 LVFFAED 23

RESULT 73
US-09-792-079-13
; Sequence 13, Application US/09792079
; Publication No. US20030083277A1
; GENERAL INFORMATION:
; APPLICANT: University of Kentucky Research Foundation
; APPLICANT: Hersh, Louis B.
; APPLICANT: Mukherjee, Atish
; TITLE OF INVENTION: Use Of Insulin Degrading Enzyme (IDE) For The Treatment
Of Alzheimer's
; TITLE OF INVENTION: Disease Patients
; FILE REFERENCE: 050229-0261
; CURRENT APPLICATION NUMBER: US/09/792,079
; CURRENT FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: 60/184,826
; PRIOR FILING DATE: 2000-02-24
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
;   LENGTH: 42
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-792-079-13

  Query Match   85.4%; Score 35; DB 10; Length 42;
  Best Local Similarity   100.0%; Pred. No. 5.6;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LVFFAED 7
              |||||||
Db   17 LVFFAED 23

RESULT 74
US-09-825-242-1
; Sequence 1, Application US/09825242
; Publication No. US20030092000A1
; GENERAL INFORMATION:
; APPLICANT: Schenk, Dale B.
; APPLICANT: Neuralab Limited
; TITLE OF INVENTION: Prevention and Treatment of Amyloidogenic Disease
; FILE REFERENCE: 15270J-004720US
; CURRENT APPLICATION NUMBER: US/09/825,242
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/201,430
; PRIOR FILING DATE: 1998-11-30

; PRIOR APPLICATION NUMBER: US 60/080,970
; PRIOR FILING DATE: 1998-04-07
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 42
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   OTHER INFORMATION: human Abeta42 beta-amyloid peptide
US-09-825-242-1

  Query Match   85.4%; Score 35; DB 10; Length 42;
  Best Local Similarity   100.0%; Pred. No. 5.6;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LVFFAED 7
              |||||||
Db   17 LVFFAED 23

RESULT 75
US-09-930-915A-293
; Sequence 293, Application US/09930915A
; Publication No. US20030138769A1
; GENERAL INFORMATION:
; APPLICANT: Birkett, Ashley J.
; TITLE OF INVENTION: IMMUNOGENIC HBc CHIMER PARTICLES HAVING ENHANCED
; TITLE OF INVENTION: STABILITY
; FILE REFERENCE: 4564/83501 ICC-102.2 PCT
; CURRENT APPLICATION NUMBER: US/09/930,915A
; CURRENT FILING DATE: 2001-08-15
; PRIOR APPLICATION NUMBER: 60/226,867
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: 60/225,843
; PRIOR FILING DATE: 2000-08-16
; NUMBER OF SEQ ID NOS: 313
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 293
;   LENGTH: 42
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-930-915A-293

  Query Match   85.4%; Score 35; DB 10; Length 42;
  Best Local Similarity   100.0%; Pred. No. 5.6;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LVFFAED 7
              |||||||
Db   17 LVFFAED 23

RESULT 76
US-10-051-496-2
; Sequence 2, Application US/10051496
; Publication No. US20020182660A1

```
;   GENERAL INFORMATION:
;        APPLICANT: Kei-Lai L. Fong
;        TITLE OF INVENTION: N- and C-Terminus Specific Immunoassays for
;                            Full Length Beta-Amyloid Peptide - Abeta(1-40),
Abeta(1-39),
;                            Abeta(1-41), Abeta(1-42) and Abeta (1-43)
;        NUMBER OF SEQUENCES: 5
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Kei-Lai L. Fong
;             STREET: 1004 West 8th Avenue
;             CITY: King of Prussia
;             STATE: Pennsylvania
;             COUNTRY: USA
;             ZIP: 19406
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: 3.50 inch, 1.44MB storage
;             COMPUTER: IBM PC Compatibles
;             OPERATING SYSTEM: Windows
;             SOFTWARE: MS No. US20020182660A1epad
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/10/051,496
;             FILING DATE: 18-Jan-2002
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US/09/784,854A
;             FILING DATE: 16-Feb-2001
;             APPLICATION NUMBER: 60/183,407
;             FILING DATE: 18-February-2000
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Koenig, C. Frederick III
;             REGISTRATION NUMBER: 29,662
;             REFERENCE/DOCKET NUMBER: PBI-PT001.1
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (215) 568-6400
;             TELEFAX: (215) 568-6499
;   INFORMATION FOR SEQ ID NO: 2:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 42 Amino Acid
;             TYPE: Amino Acid
;             TOPOLOGY: Linear
;        MOLECULE TYPE: Protein
;        FEATURE:
;             NAME/KEY:   Signal Sequence
;             LOCATION:   1-42
;             IDENTIFICATION METHOD:   Similarity to other sequences, hydro-
phobic
;             OTHER INFORMATION:
;        PUBLICATION INFORMATION:
;             AUTHORS:
;             TITLE:
;             JOURNAL:
;             VOLUME:
;             ISSUE:
;             PAGES:
;             DATE:
;             RELEVANT RESIDUES IN SEQ ID NO: 2:FROM 1-42
;        SEQUENCE DESCRIPTION: SEQ ID NO: 2:
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US-10-051-496-2

  Query Match   85.4%; Score 35; DB 13; Length 42;
  Best Local Similarity   100.0%; Pred. No. 5.6;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LVFFAED 7
              |||||||
Db   17 LVFFAED 23

RESULT 77
US-10-082-804-7
; Sequence 7, Application US/10082804
; Publication No. US20020194632A1
; GENERAL INFORMATION:
; APPLICANT: McConlogue, Lisa
; APPLICANT: Gurney, Mark E.
; TITLE OF INVENTION: Transgenic Knockouts of BACE-1
; FILE REFERENCE: MBHB 02-329-A
; CURRENT APPLICATION NUMBER: US/10/082,804
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: 60/271,092
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/271,514
; PRIOR FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: 60/293,762
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
;   LENGTH: 42
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   OTHER INFORMATION: A-beta 42 sequence.
US-10-082-804-7

  Query Match   85.4%; Score 35; DB 13; Length 42;
  Best Local Similarity   100.0%; Pred. No. 5.6;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LVFFAED 7
              |||||||
Db   17 LVFFAED 23

RESULT 78
US-10-217-584-2
; Sequence 2, Application US/10217584
; Publication No. US20030077261A1
; GENERAL INFORMATION:
; APPLICANT: Paris, Daniel
; APPLICANT: Mullan, Michael
; TITLE OF INVENTION: Modulation of Angiogenesis by A-Beta Peptides
; FILE REFERENCE: USF-T161XC1
; CURRENT APPLICATION NUMBER: US/10/217,584

```
;  CURRENT FILING DATE:  2002-08-12
;  PRIOR APPLICATION NUMBER: 60/311,656
;  PRIOR FILING DATE: 2001-08-10
;  NUMBER OF SEQ ID NOS: 11
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
;   LENGTH: 42
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: PEPTIDE
;   LOCATION: (1)..(42)
;   OTHER INFORMATION: A-beta 1-42 peptide
US-10-217-584-2

  Query Match             85.4%;  Score 35;  DB 14;  Length 42;
  Best Local Similarity   100.0%;  Pred. No. 5.6;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 79
US-10-169-580-2
; Sequence 2, Application US/10169580
; Publication No. US20030100477A1
; GENERAL INFORMATION:
;  APPLICANT: Yamanouchi Pharmaceutical Co., Ltd.
;  TITLE OF INVENTION: PHARMACEUTICAL COMPOSITIONS FOR SUPPRESSING B-AMYLOID
PRODUCTION
;  FILE REFERENCE: Q70898
;  CURRENT APPLICATION NUMBER: US/10/169,580
;  CURRENT FILING DATE:  2002-07-08
;  PRIOR APPLICATION NUMBER: 2000-131037
;  PRIOR FILING DATE: 2000-04-28
;  PRIOR APPLICATION NUMBER: PCT/JP01/03555
;  PRIOR FILING DATE: 2001-04-25
;  NUMBER OF SEQ ID NOS: 21
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
;   LENGTH: 42
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-169-580-2

  Query Match             85.4%;  Score 35;  DB 14;  Length 42;
  Best Local Similarity   100.0%;  Pred. No. 5.6;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 80
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US-10-278-181-1
; Sequence 1, Application US/10278181
; Publication No. US20030104488A1
; GENERAL INFORMATION:
; APPLICANT: Chojkier, Mario
; APPLICANT: Buck, Martina
; TITLE OF INVENTION: Compositions and Methods for Diagnosing Alzheimer's
; TITLE OF INVENTION: Disease
; FILE REFERENCE: CHOJKIER-04302
; CURRENT APPLICATION NUMBER: US/10/278,181
; CURRENT FILING DATE: 2002-10-21
; PRIOR APPLICATION NUMBER: US/09/731,460
; PRIOR FILING DATE: 2000-12-07
; NUMBER OF SEQ ID NOS: 1
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
;   LENGTH: 42
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-278-181-1

  Query Match   85.4%; Score 35; DB 14; Length 42;
  Best Local Similarity   100.0%; Pred. No. 5.6;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LVFFAED 7
              |||||||
Db   17 LVFFAED 23

RESULT 81
US-10-143-534-2
; Sequence 2, Application US/10143534
; Publication No. US20030105152A1
; GENERAL INFORMATION:
; APPLICANT: Ingram, Vernon M.
; APPLICANT: Blanchard, Barbara J.
; APPLICANT: Stockwell, Brent R.
; TITLE OF INVENTION: TREATMENTS FOR NEUROTOXICITY IN ALZHEIMER'S DISEASE
; FILE REFERENCE: M00656/70078
; CURRENT APPLICATION NUMBER: US/10/143,534
; CURRENT FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: US 10/051,663
; PRIOR FILING DATE: 2002-01-18
; PRIOR APPLICATION NUMBER: US 09/706,574
; PRIOR FILING DATE: 2000-11-03
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn Version 3.0
; SEQ ID NO 2
;   LENGTH: 42
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Synthetic Peptide
US-10-143-534-2

Query Match 85.4%; Score 35; DB 14; Length 42;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23
```

RESULT 82
US-10-190-548A-1
; Sequence 1, Application US/10190548A
; Publication No. US20030109435A1
; GENERAL INFORMATION:
; APPLICANT: Griswold Prenner, Irene
; APPLICANT: Wright, Sarah
; APPLICANT: Yednock, Theodore
; APPLICANT: Rydel, Russell
; TITLE OF INVENTION: Methods of Inhibiting Amyloid Toxicity
; FILE REFERENCE: 08576.0030-00
; CURRENT APPLICATION NUMBER: US/10/190,548A
; CURRENT FILING DATE: 2002-12-09
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 42
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-190-548A-1

Query Match 85.4%; Score 35; DB 14; Length 42;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23
```

RESULT 83
US-10-051-663-2
; Sequence 2, Application US/10051663
; Publication No. US20030114510A1
; GENERAL INFORMATION:
; APPLICANT: Ingram, Vernon M.
; APPLICANT: Blanchard, Barbara J.
; APPLICANT: Stockwell, Brent R.
; TITLE OF INVENTION: TREATMENTS FOR NEUROTOXICITY IN ALZHEIMER'S DISEASE
; FILE REFERENCE: M0656/7071
; CURRENT APPLICATION NUMBER: US/10/051,663
; CURRENT FILING DATE: 2002-01-18
; PRIOR APPLICATION NUMBER: US 09/706,574
; PRIOR FILING DATE: 2000-11-03
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn Version 3.0
; SEQ ID NO 2

; LENGTH: 42
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Peptide
US-10-051-663-2

  Query Match   85.4%; Score 35; DB 14; Length 42;
  Best Local Similarity   100.0%; Pred. No. 5.6;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LVFFAED 7
              |||||||
Db   17 LVFFAED 23

RESULT 84
US-10-159-279-13
; Sequence 13, Application US/10159279
; Publication No. US20030165481A1
; GENERAL INFORMATION:
; APPLICANT: University of Kentucky Research Foundation
; APPLICANT: Hersh, Louis B.
; APPLICANT: Mukherjee, Atish
; TITLE OF INVENTION: Use Of Insulin Degrading Enzyme (IDE) For The Treatment
Of Alzheimer's
; TITLE OF INVENTION: Disease Patients
; FILE REFERENCE: 050229-0298
; CURRENT APPLICATION NUMBER: US/10/159,279
; CURRENT FILING DATE: 2002-06-03
; PRIOR APPLICATION NUMBER: 60/184,826
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 09/792,079
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
; LENGTH: 42
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-159-279-13

  Query Match   85.4%; Score 35; DB 14; Length 42;
  Best Local Similarity   100.0%; Pred. No. 5.6;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LVFFAED 7
              |||||||
Db   17 LVFFAED 23

RESULT 85
US-10-318-302-4
; Sequence 4, Application US/10318302
; Publication No. US20030171556A1
; GENERAL INFORMATION:
; APPLICANT: POSCO

; APPLICANT: POSTECH FOUNDATION
; APPLICANT: Chae, Chi-Bom
; APPLICANT: Gho, Yong Song
; APPLICANT: Yang, Seung-Pil
; APPLICANT: Kwon, Byung Oh
; APPLICANT: Bae, Dong-Goo
; APPLICANT: Hwang, Sewook
; TITLE OF INVENTION: BETA-AMYLOID BINDING FACTORS AND INHIBITORS THEREOF
; FILE REFERENCE: 10011-00001
; CURRENT APPLICATION NUMBER: US/10/318,302
; CURRENT FILING DATE: 2002-12-12
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
;   LENGTH: 42
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-318-302-4

  Query Match   85.4%; Score 35; DB 14; Length 42;
  Best Local Similarity   100.0%; Pred. No. 5.6;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LVFFAED 7
              |||||||
Db   17 LVFFAED 23

RESULT 86
US-10-050-902-220
; Sequence 220, Application US/10050902
; Publication No. US20030175290A1
; GENERAL INFORMATION:
; APPLICANT: Renner, Wolfgang A.
; APPLICANT: Bachmann, Martin
; APPLICANT: Tissot, Alain
; APPLICANT: Maurer, Patrick
; APPLICANT: Lechner, Franziska
; APPLICANT: Sebbel, Peter
; APPLICANT: Piossek, Christine
; TITLE OF INVENTION: Molecular Antigen Array
; FILE REFERENCE: 1700.0190004
; CURRENT APPLICATION NUMBER: US/10/050,902
; CURRENT FILING DATE: 2002-01-18
; PRIOR APPLICATION NUMBER: US 60/262,379
; PRIOR FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: US 60/288,549
; PRIOR FILING DATE: 2001-05-04
; PRIOR APPLICATION NUMBER: US 60/326,998
; PRIOR FILING DATE: 2001-10-05
; PRIOR APPLICATION NUMBER: US 60/331,045
; PRIOR FILING DATE: 2001-11-07
; NUMBER OF SEQ ID NOS: 350
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 220
;   LENGTH: 42
;   TYPE: PRT

; ORGANISM: Amyloid Beta Peptide
US-10-050-902-220

  Query Match 85.4%; Score 35; DB 14; Length 42;
  Best Local Similarity 100.0%; Pred. No. 5.6;
  Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LVFFAED 7
      |||||||
Db 17 LVFFAED 23

RESULT 87
US-10-050-898-220
; Sequence 220, Application US/10050898
; Publication No. US20030175711A1
; GENERAL INFORMATION:
; APPLICANT: Renner, Wolfgang A.
; APPLICANT: Bachmann, Martin
; APPLICANT: Tissot, Alain
; APPLICANT: Maurer, Patrick
; APPLICANT: Lechner, Franziska
; APPLICANT: Sebbel, Peter
; APPLICANT: Piossek, Christine
; APPLICANT: Ortmann, Rainer
; APPLICANT: Luond, Rainer
; APPLICANT: Staufenbiel, Matthias
; APPLICANT: Frey, Peter
; TITLE OF INVENTION: Molecular Antigen Array
; FILE REFERENCE: 1700.0190005
; CURRENT APPLICATION NUMBER: US/10/050,898
; CURRENT FILING DATE: 2002-01-18
; PRIOR APPLICATION NUMBER: US 60/262,379
; PRIOR FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: US 60/288,549
; PRIOR FILING DATE: 2001-05-04
; PRIOR APPLICATION NUMBER: US 60/326,998
; PRIOR FILING DATE: 2001-10-05
; PRIOR APPLICATION NUMBER: US 60/331,045
; PRIOR FILING DATE: 2001-11-07
; NUMBER OF SEQ ID NOS: 350
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 220
; LENGTH: 42
; TYPE: PRT
; ORGANISM: Amyloid Beta Peptide
US-10-050-898-220

  Query Match 85.4%; Score 35; DB 14; Length 42;
  Best Local Similarity 100.0%; Pred. No. 5.6;
  Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LVFFAED 7
      |||||||
Db 17 LVFFAED 23

```
RESULT 88
US-10-082-014-81
; Sequence 81, Application US/10082014
; Publication No. US20030185858A1
; GENERAL INFORMATION:
;  APPLICANT: Birkett, Ashley J.
;  TITLE OF INVENTION: IMMUNOGENIC HBc CHIMER PARTICLES STABILIZED WITH AN N-
TERMINAL CYSTEINE
;  FILE REFERENCE: ICC-130.0 4564/85124
;  CURRENT APPLICATION NUMBER: US/10/082,014
;  CURRENT FILING DATE:  2002-02-22
;  PRIOR APPLICATION NUMBER: 09/930,915
;  PRIOR FILING DATE: 2001-08-15
;  NUMBER OF SEQ ID NOS: 290
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 81
;   LENGTH: 42
;   TYPE: PRT
;   ORGANISM: Alzheimer's disease b-Amyloid
US-10-082-014-81

  Query Match             85.4%;  Score 35;  DB 14;  Length 42;
  Best Local Similarity   100.0%;  Pred. No. 5.6;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 89
US-10-372-076-82
; Sequence 82, Application US/10372076
; Publication No. US20030198645A1
; GENERAL INFORMATION:
;  APPLICANT: Page, Mark
;  APPLICANT:  Friede, Martin
;  TITLE OF INVENTION: STABILIZED HBc CHIMER PARTICLES AS THERAPEUTIC VACCINE
FOR
;  TITLE OF INVENTION:  CHRONIC HEPATITIS
;  FILE REFERENCE: 4564/87179
;  CURRENT APPLICATION NUMBER: US/10/372,076
;  CURRENT FILING DATE:  2003-02-21
;  PRIOR APPLICATION NUMBER: 10/080,299
;  PRIOR FILING DATE: 2002-02-21
;  PRIOR APPLICATION NUMBER: 10/082,014
;  PRIOR FILING DATE: 2002-02-22
;  NUMBER OF SEQ ID NOS: 308
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 82
;   LENGTH: 42
;   TYPE: PRT
;   ORGANISM: Alzheimer's disease b-Amyloid
US-10-372-076-82

  Query Match             85.4%;  Score 35;  DB 14;  Length 42;
  Best Local Similarity   100.0%;  Pred. No. 5.6;
```

```
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 90
US-10-231-298B-15
; Sequence 15, Application US/10231298B
; Publication No. US20030219853A1
; GENERAL INFORMATION:
;  APPLICANT: Chou, Szu-Yi
;  TITLE OF INVENTION: Method of Cross-Linking a Compound
;  FILE REFERENCE: SAMG/0006
;  CURRENT APPLICATION NUMBER: US/10/231,298B
;  CURRENT FILING DATE:  2002-08-28
;  PRIOR APPLICATION NUMBER: 60/361,166
;  PRIOR FILING DATE: 2002-03-01
;  PRIOR APPLICATION NUMBER: 60/363,445
;  PRIOR FILING DATE: 2002-03-08
;  NUMBER OF SEQ ID NOS: 16
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
;   LENGTH: 42
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-231-298B-15

  Query Match             85.4%;  Score 35;  DB 15;  Length 42;
  Best Local Similarity   100.0%;  Pred. No. 5.6;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 91
US-10-231-470C-15
; Sequence 15, Application US/10231470C
; Publication No. US20030219857A1
; GENERAL INFORMATION:
;  APPLICANT: Chou, Szu-Yi
;  TITLE OF INVENTION: Method Of Producing Transglutaminase Having Broad
Substrate
;  TITLE OF INVENTION:  Activity
;  FILE REFERENCE: SAMG/0003
;  CURRENT APPLICATION NUMBER: US/10/231,470C
;  CURRENT FILING DATE:  2002-08-28
;  PRIOR APPLICATION NUMBER: 60/361,166
;  PRIOR FILING DATE: 2002-03-01
;  PRIOR APPLICATION NUMBER: 60/363,445
;  PRIOR FILING DATE: 2002-03-08
;  NUMBER OF SEQ ID NOS: 16
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
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```
;   LENGTH: 42
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-231-470C-15

  Query Match             85.4%;  Score 35;  DB 15;  Length 42;
  Best Local Similarity   100.0%;  Pred. No. 5.6;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 92
US-10-366-125-28
; Sequence 28, Application US/10366125
; Publication No. US20030228259A1
; GENERAL INFORMATION:
;  APPLICANT: Hellerstein, Marc
;  TITLE OF INVENTION: MEASUREMENT OF BIOSYNTHESIS AND BREAKDOWN RATES OF
;  TITLE OF INVENTION:  BIOLOGICAL MOLECULES THAT ARE INACCESSIBLE OR NOT
;  TITLE OF INVENTION:  EASILY ACCESSIBLE TO DIRECT SAMPLING, NON-INVASIVELY,
;  TITLE OF INVENTION:  BY LABEL INCORPORATION INTO METABOLIC DERIVATIVES AND
;  TITLE OF INVENTION:  CATABOLITIC PRODUCTS
;  FILE REFERENCE: 416272003500
;  CURRENT APPLICATION NUMBER: US/10/366,125
;  CURRENT FILING DATE:  2003-02-12
;  PRIOR APPLICATION NUMBER: US 60/356,008
;  PRIOR FILING DATE: 2002-02-12
;  NUMBER OF SEQ ID NOS: 28
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 28
;   LENGTH: 42
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-366-125-28

  Query Match             85.4%;  Score 35;  DB 15;  Length 42;
  Best Local Similarity   100.0%;  Pred. No. 5.6;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 93
US-10-411-544-2
; Sequence 2, Application US/10411544
; Publication No. US20030232758A1
; GENERAL INFORMATION:
;  APPLICANT: St. George-Hyslop, Peter
;  APPLICANT:  McLaurin, JoAnne
;  TITLE OF INVENTION: Immunological Methods and Compositions for the Treatment
of Alzheimer's
;  TITLE OF INVENTION:  Disease
```

```
;  FILE REFERENCE: LI01547
;  CURRENT APPLICATION NUMBER: US/10/411,544
;  CURRENT FILING DATE:  2003-04-10
;  NUMBER OF SEQ ID NOS: 52
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
;   LENGTH: 42
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-411-544-2

  Query Match             85.4%;  Score 35;  DB 15;  Length 42;
  Best Local Similarity   100.0%;  Pred. No. 5.6;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 94
US-10-231-213D-15
; Sequence 15, Application US/10231213D
; Publication No. US20040001848A1
; GENERAL INFORMATION:
;  APPLICANT: Chou, Szu-Yi
;  TITLE OF INVENTION: Method of Producing Disease-Specific Antigens
;  FILE REFERENCE: SAMG/0005
;  CURRENT APPLICATION NUMBER: US/10/231,213D
;  CURRENT FILING DATE:  2002-08-28
;  PRIOR APPLICATION NUMBER: 60/361,166
;  PRIOR FILING DATE: 2002-03-01
;  PRIOR APPLICATION NUMBER: 60/363,445
;  PRIOR FILING DATE: 2002-03-08
;  NUMBER OF SEQ ID NOS: 16
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
;   LENGTH: 42
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-231-213D-15

  Query Match             85.4%;  Score 35;  DB 15;  Length 42;
  Best Local Similarity   100.0%;  Pred. No. 5.6;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 95
US-10-231-114C-15
; Sequence 15, Application US/10231114C
; Publication No. US20040005654A1
; GENERAL INFORMATION:
;  APPLICANT: Chou, Szu-Yi
```

```
;  TITLE OF INVENTION: Method of Producing Polyvalent Antigens
;  FILE REFERENCE: SAMG/0002
;  CURRENT APPLICATION NUMBER: US/10/231,114C
;  CURRENT FILING DATE:  2002-08-28
;  PRIOR APPLICATION NUMBER: 60/361,166
;  PRIOR FILING DATE: 2002-03-01
;  PRIOR APPLICATION NUMBER: 60/363,445
;  PRIOR FILING DATE: 2002-03-08
;  NUMBER OF SEQ ID NOS: 16
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
;   LENGTH: 42
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-231-114C-15

  Query Match             85.4%;  Score 35;  DB 15;  Length 42;
  Best Local Similarity   100.0%;  Pred. No. 5.6;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 96
US-09-280-966-1
; Sequence 1, Application US/09280966
; Patent No. US20010020097A1
;   GENERAL INFORMATION:
;        APPLICANT: JAMES E. AUDIA
;                   BEVERLY K. FOLMER
;                   VARGHESE JOHN
;                   JEFFREY S. NISSEN
;                   WARREN J. PORTER
;                   EUGENE D. THORSETT
;                   JING WU
;        TITLE OF INVENTION: N-(ARYL/HETEROARYLACETYL) AMINO
;                            ACID ESTERS, PHARMACEUTICAL COMPOSITIONS
;                            COMPRISING SAME, AND METHODS FOR INHIBITING
;                            -AMYLOID PEPTIDE RELEASE AND/OR ITS
;        NUMBER OF SEQUENCES: 1
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Burns, Doane, Swecker & Mathis, LLP
;             STREET: P.O. Box 1404
;             CITY: Alexandria
;             STATE: Virginia
;             COUNTRY: U.S.A.
;             ZIP: 22313-1404
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/280,966
;             FILING DATE: 30-Mar-1999
```

```
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 08/976,191
;             FILING DATE: 21 NOV 1997
;             APPLICATION NUMBER: 60/077,175
;             FILING DATE: 22 NOV 1996
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Swiss, Gerald F.
;             REGISTRATION NUMBER: 30,113
;             REFERENCE/DOCKET NUMBER: 002010-335
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: 650-622-2300
;             TELEFAX: 650-622-2499
;   INFORMATION FOR SEQ ID NO: 1:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 43 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: peptide
;        SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-280-966-1

  Query Match             85.4%;  Score 35;  DB 9;  Length 43;
  Best Local Similarity   100.0%;  Pred. No. 5.8;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 97
US-09-904-987-1
; Sequence 1, Application US/09904987
; Patent No. US20020037908A1
; GENERAL INFORMATION:
;  APPLICANT: No. US20020037908A1actyl, Inc.
;  TITLE OF INVENTION: Methods and Compositions for Controlling Pathological and
Prepathological
;  TITLE OF INVENTION:  Protein Assembly or Aggregation
;  FILE REFERENCE: 42108/26146
;  CURRENT APPLICATION NUMBER: US/09/904,987
;  CURRENT FILING DATE:  2001-07-12
;  NUMBER OF SEQ ID NOS: 7
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
;   LENGTH: 43
;   TYPE: PRT
;   ORGANISM: homo sapiens
;  PUBLICATION INFORMATION:
;   DATABASE ACCESSION NUMBER: NCBI ENTREZ / QRHUA4
;   DATABASE ENTRY DATE: 2000-09-15
;   RELEVANT RESIDUES: (672)..(714)
US-09-904-987-1

  Query Match             85.4%;  Score 35;  DB 9;  Length 43;
  Best Local Similarity   100.0%;  Pred. No. 5.8;
```

```
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 98
US-09-808-037-3
; Sequence 3, Application US/09808037
; Patent No. US20020052311A1
; GENERAL INFORMATION:
;  APPLICANT: SOLOMON, Beka
;  APPLICANT:  HANAN, Eilat
;  TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE TREATMENT AND/OR
DIAGNOSIS OF
;  TITLE OF INVENTION:  NEUROLOGICAL DISEASES AND DISORDERS
;  FILE REFERENCE: SOLOMON=2D
;  CURRENT APPLICATION NUMBER: US/09/808,037
;  CURRENT FILING DATE:  2001-03-15
;  PRIOR APPLICATION NUMBER: 09/629,971
;  PRIOR FILING DATE: 2000-07-31
;  PRIOR APPLICATION NUMBER: US 09/473,653
;  PRIOR FILING DATE: 1999-12-29
;  PRIOR APPLICATION NUMBER: US 60/152,417
;  PRIOR FILING DATE: 1999-09-03
;  NUMBER OF SEQ ID NOS: 33
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
;   LENGTH: 43
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: synthetic peptide
US-09-808-037-3

  Query Match             85.4%;  Score 35;  DB 9;  Length 43;
  Best Local Similarity   100.0%;  Pred. No. 5.8;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 99
US-09-866-712-3
; Sequence 3, Application US/09866712
; Patent No. US20020058637A1
;   GENERAL INFORMATION:
;        APPLICANT: Akihiko TAKASHIMA et al.
;        TITLE OF INVENTION: METHODS OF INHIBITING TAU-PROTEIN KINASE I ACTIVITY
;                            INHIBITING NEURONAL CELL DEATH AND TREATING
ALZHEIMER'S DISEASE AND TAU-PROTEIN
;                            KINASE I (AS AMENDED)
;        NUMBER OF SEQUENCES: 13
;        CORRESPONDENCE ADDRESS:
```

```
;              ADDRESSEE: WENDEROTH, LIND & PONACK
;              STREET: 2033 K Street, N.W., #800
;              CITY: Washington
;              STATE: D.C.
;              COUNTRY: USA
;              ZIP: 20006
;         COMPUTER READABLE FORM:
;              MEDIUM TYPE: Diskette, 3.5 inch, 1.44 mb
;              COMPUTER: IBM Compatible
;              OPERATING SYSTEM: MS-DOS
;              SOFTWARE: Wordperfect 5.1
;         CURRENT APPLICATION DATA:
;              APPLICATION NUMBER: US/09/866,712
;              FILING DATE: 30-May-2001
;              CLASSIFICATION: <Unknown>
;         PRIOR APPLICATION DATA:
;              APPLICATION NUMBER: 09/216,958
;              FILING DATE: December 21, 1998
;         ATTORNEY/AGENT INFORMATION:
;              NAME: Lee Cheng
;              REGISTRATION NUMBER: 40,949
;              REFERENCE/DOCKET NUMBER: 2001-0488/LC/00177
;         TELECOMMUNICATION INFORMATION:
;              TELEPHONE: (202)721-8200
;              TELEFAX: (202)721-8250
;              TELEX: <Unknown>
;    INFORMATION FOR SEQ ID NO: 3:
;         SEQUENCE CHARACTERISTICS:
;              LENGTH: 43 amino acids
;              TYPE: amino acid
;              STRANDEDNESS: single
;              TOPOLOGY: linear
;         MOLECULE TYPE: peptide
;         SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-866-712-3

  Query Match             85.4%;  Score 35;  DB 9;  Length 43;
  Best Local Similarity   100.0%;  Pred. No. 5.8;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


RESULT 100
US-09-972-475-1
; Sequence 1, Application US/09972475
; Patent No. US20020098173A1
;   GENERAL INFORMATION:
;         APPLICANT: Findeis, Mark A. et al.
;         TITLE OF INVENTION: Modulators of Amyloid Aggregation
;         NUMBER OF SEQUENCES: 45
;         CORRESPONDENCE ADDRESS:
;              ADDRESSEE: LAHIVE & COCKFIELD, LLP
;              STREET: 28 State Street
;              CITY: Boston
```

```
;              STATE: Massachusetts
;              COUNTRY: USA
;              ZIP: 02109-1875
;         COMPUTER READABLE FORM:
;              MEDIUM TYPE: Floppy disk
;              COMPUTER: IBM PC compatible
;              OPERATING SYSTEM: PC-DOS/MS-DOS
;              SOFTWARE: PatentIn Release #1.0, Version #1.25
;         CURRENT APPLICATION DATA:
;              APPLICATION NUMBER: US/09/972,475
;              FILING DATE: 04-Oct-2001
;         PRIOR APPLICATION DATA:
;              APPLICATION NUMBER: 08/617,267
;              FILING DATE: <Unknown>
;              APPLICATION NUMBER: USSN 08/475,579
;              FILING DATE: 07-JUN-1995
;              APPLICATION NUMBER: USSN 08/548,998
;              FILING DATE: 27-OCT-1995
;         ATTORNEY/AGENT INFORMATION:
;              NAME: DeConti, Giulio A.
;              REGISTRATION NUMBER: 31,503
;              REFERENCE/DOCKET NUMBER: PPI-002CP2
;         TELECOMMUNICATION INFORMATION:
;              TELEPHONE: (617)227-7400
;              TELEFAX: (617)227-5941
;    INFORMATION FOR SEQ ID NO: 1:
;         SEQUENCE CHARACTERISTICS:
;              LENGTH: 43 amino acids
;              TYPE: amino acid
;              TOPOLOGY: linear
;         MOLECULE TYPE: peptide
;         FRAGMENT TYPE: internal
;         SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-972-475-1

  Query Match             85.4%;  Score 35;  DB 9;  Length 43;
  Best Local Similarity   100.0%;  Pred. No. 5.8;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db         17 LVFFAED 23


Search completed: February 28, 2004, 09:08:00
Job time : 50.5 secs
```

GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: February 28, 2004, 08:37:49 ; Search time 27 Seconds
(without alignments)
28.501 Million cell updates/sec

Title: US-09-668-314C-84
Perfect score: 41
Sequence: 1 LVFFAEDF 8

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283366 seqs, 96191526 residues

Total number of hits satisfying chosen parameters: 283366

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : PIR_78:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	35	85.4	33	2	S23094	beta-amyloid prote
2	35	85.4	42	2	PN0512	beta-amyloid prote
3	35	85.4	57	2	E60045	Alzheimer's diseas
4	35	85.4	57	2	F60045	Alzheimer's diseas
5	35	85.4	57	2	G60045	Alzheimer's diseas
6	35	85.4	57	2	D60045	Alzheimer's diseas
7	35	85.4	57	2	A60045	Alzheimer's diseas
8	35	85.4	57	2	B60045	Alzheimer's diseas
9	35	85.4	82	2	PQ0438	Alzheimer's diseas
10	35	85.4	695	1	A49795	Alzheimer's diseas
11	35	85.4	695	2	A27485	Alzheimer's diseas

12	35	85.4	695	2	S00550	Alzheimer's diseas
13	35	85.4	770	1	QRHUA4	Alzheimer's diseas
14	33	80.5	222	2	T24151	hypothetical prote
15	33	80.5	455	2	D69078	probable phosphoma
16	33	80.5	502	2	T27908	hypothetical prote
17	32	78.0	261	2	B89868	conserved hypothet
18	32	78.0	398	2	T44331	hypothetical prote
19	31	75.6	150	2	T29939	hypothetical prote
20	31	75.6	182	2	T35807	hypothetical prote
21	31	75.6	224	2	G71483	hypothetical prote
22	31	75.6	291	2	AB1397	hypothetical prote
23	31	75.6	301	2	S39679	transcription regu
24	31	75.6	368	2	F70327	conserved hypothet
25	31	75.6	582	2	I38028	matrix metalloprot
26	31	75.6	614	2	T40652	hypothetical prote
27	31	75.6	622	2	T24632	hypothetical prote
28	31	75.6	741	2	T46488	hypothetical prote
29	31	75.6	747	2	JH0773	Alzheimer's diseas
30	31	75.6	1364	2	T51920	probable xanthine
31	30	73.2	174	2	AC1587	hypothetical prote
32	30	73.2	216	2	T12812	hypothetical prote
33	30	73.2	222	2	T32121	hypothetical prote
34	30	73.2	224	2	E72049	conserved hypothet
35	30	73.2	224	2	F86575	CT691 hypothetical
36	30	73.2	258	2	AG0459	Sec-independent pr
37	30	73.2	327	2	F83773	ABC transporter (s
38	30	73.2	402	2	B90519	hypothetical prote
39	30	73.2	457	2	AF0003	oxygen-independent
40	30	73.2	471	2	T47568	fructokinase-like
41	30	73.2	566	2	S54091	hypothetical prote
42	30	73.2	582	2	T46822	phytoene desaturas
43	30	73.2	641	2	H69651	lichenan operon tr
44	30	73.2	664	2	D81330	glycine-tRNA ligas
45	30	73.2	745	2	T03119	hypothetical prote
46	30	73.2	768	2	T45876	hypothetical prote
47	30	73.2	1007	2	A30093	beta-galactosidase
48	30	73.2	1159	2	T15963	hypothetical prote
49	30	73.2	1282	2	JE0120	glycoprotein A - m
50	30	73.2	1366	2	T42654	hypothetical prote
51	30	73.2	1747	2	A45974	collagen alpha 1(X
52	30	73.2	1857	2	S31212	collagen alpha 1(X
53	30	73.2	1888	2	S78476	collagen alpha 1(X
54	29	70.7	70	2	T17847	hypothetical prote
55	29	70.7	100	2	AH1192	B. subtilis YneR p
56	29	70.7	111	2	T36555	probable membrane
57	29	70.7	135	2	T24892	hypothetical prote
58	29	70.7	192	2	I80320	hypothetical 22K p
59	29	70.7	206	2	E81221	probable integral
60	29	70.7	234	2	D95021	hypothetical prote
61	29	70.7	234	2	A97893	hypothetical prote
62	29	70.7	244	2	F69260	nitrate ABC transp
63	29	70.7	247	2	B86301	hypothetical prote
64	29	70.7	251	2	C75200	hypothetical prote
65	29	70.7	273	2	T06661	hypothetical prote
66	29	70.7	314	2	F86805	cation transporter
67	29	70.7	321	2	H71729	hypothetical prote
68	29	70.7	332	2	T25676	hypothetical prote

69	29	70.7	347	2	S35229	hypD' protein - Br
70	29	70.7	357	2	S59678	HST2 protein - yea
71	29	70.7	385	2	S32877	hypD protein - Rhi
72	29	70.7	394	2	T25049	hypothetical prote
73	29	70.7	420	2	E90553	hypothetical prote
74	29	70.7	455	2	E71082	probable phospho-s
75	29	70.7	494	2	B84230	hypothetical prote
76	29	70.7	508	2	T36945	hypothetical prote
77	29	70.7	513	2	T11391	cytochrome-c oxida
78	29	70.7	526	2	G86587	heat shock protein
79	29	70.7	526	2	D72036	heat shock protein
80	29	70.7	526	2	F81504	60 kDa chaperonin
81	29	70.7	534	2	E82269	conserved hypothet
82	29	70.7	572	2	T32523	hypothetical prote
83	29	70.7	607	2	T24172	hypothetical prote
84	29	70.7	678	2	S56284	hypothetical prote
85	29	70.7	693	2	AF2275	cellulose synthase
86	29	70.7	802	2	JH0595	potassium channel
87	29	70.7	840	2	F75294	DNA modification m
88	29	70.7	853	1	CHRTD1	potassium channel
89	29	70.7	857	2	I56529	potassium channel
90	29	70.7	858	2	S31761	potassium channel
91	29	70.7	1018	2	A69329	probable isoleucin
92	28.5	69.5	639	2	S72163	methyl-accepting c
93	28	68.3	109	1	MNIHB2	nonstructural prot
94	28	68.3	109	1	A44275	nonstructural prot
95	28	68.3	109	2	S58182	nonstructural prot
96	28	68.3	109	2	S58186	nonstructural prot
97	28	68.3	116	1	R5HSS6	ribosomal protein
98	28	68.3	141	2	H84375	Holliday junction
99	28	68.3	141	2	C83475	hypothetical prote
100	28	68.3	157	2	S76052	hypothetical prote
101	28	68.3	173	1	DZYZSX	development-specif
102	28	68.3	175	1	DZYZ1X	gene 1 protein - M
103	28	68.3	183	2	T30677	hypothetical prote
104	28	68.3	189	2	S39864	late competence op
105	28	68.3	190	2	T23702	hypothetical prote
106	28	68.3	190	2	B97827	hypothetical prote
107	28	68.3	196	2	I39698	blue copper-bindin
108	28	68.3	196	2	T51838	blue copper bindin
109	28	68.3	225	2	B84921	hypothetical prote
110	28	68.3	241	2	C70178	hypothetical prote
111	28	68.3	246	2	H72314	hypothetical prote
112	28	68.3	253	1	F71233	hypothetical prote
113	28	68.3	256	2	A99515	lipoprotein [impor
114	28	68.3	259	2	F88197	protein ZK1127.1 [
115	28	68.3	260	2	T40430	conserved hypothet
116	28	68.3	263	2	T01149	probable acetone-c
117	28	68.3	291	2	AD1772	hypothetical prote
118	28	68.3	293	2	A71946	hypothetical prote
119	28	68.3	300	2	AC1342	ABC transporter (A
120	28	68.3	300	2	AI1712	ABC transporter (A
121	28	68.3	306	2	D70409	hypothetical prote
122	28	68.3	320	2	T22408	hypothetical prote
123	28	68.3	332	2	T45723	hypothetical prote
124	28	68.3	344	2	AD2750	ABC transporter, m
125	28	68.3	344	2	C97531	brancheD-chain ami

126	28	68.3	348	2	F70398	p-aminobenzoate sy
127	28	68.3	357	2	F82982	catabolic alanine
128	28	68.3	365	2	AI2034	hypothetical prote
129	28	68.3	372	2	A64176	hypothetical prote
130	28	68.3	384	2	E71331	probable cell divi
131	28	68.3	401	2	B70398	argininosuccinate
132	28	68.3	405	2	T34119	hypothetical prote
133	28	68.3	411	1	D64052	Na+-translocating
134	28	68.3	420	2	A96535	unknown protein, 1
135	28	68.3	421	2	S36799	calreticulin precu
136	28	68.3	422	2	C95053	IS1167, transposas
137	28	68.3	433	2	H90495	metabolite transpo
138	28	68.3	447	1	WMADMA	early E1B 50K prot
139	28	68.3	458	2	B46733	Na+-transporting A
140	28	68.3	466	2	T02324	hypothetical prote
141	28	68.3	486	2	T50749	methoxyneurosporen
142	28	68.3	486	2	S49624	methoxyneurosporen
143	28	68.3	487	2	T50041	capsular polysacch
144	28	68.3	490	2	B71338	probable folylpoly
145	28	68.3	495	2	S23633	methoxyneurosporen
146	28	68.3	509	2	G96552	unknown protein, 6
147	28	68.3	522	2	T21591	hypothetical prote
148	28	68.3	525	2	T50893	methoxyneurosporen
149	28	68.3	533	2	T46975	lysine-tRNA ligase
150	28	68.3	535	2	B95952	probable dipeptide
151	28	68.3	538	2	S36424	cytochrome-c oxida
152	28	68.3	551	2	E64728	yabN protein - Esc
153	28	68.3	552	2	B90638	probable transport
154	28	68.3	552	2	B85489	probable transport
155	28	68.3	554	2	E85015	hypothetical prote
156	28	68.3	555	2	A97307	uncharacterized co
157	28	68.3	559	2	G71327	probable apolipopr
158	28	68.3	559	2	T01724	hypothetical prote
159	28	68.3	575	2	JG0181	X11L2 protein - hu
160	28	68.3	576	2	AF2361	flavoprotein [impo
161	28	68.3	585	1	JC1486	neopullulanase (EC
162	28	68.3	590	1	S34960	NADH2 dehydrogenas
163	28	68.3	600	2	AE2570	hypothetical prote
164	28	68.3	623	2	G81420	hypothetical prote
165	28	68.3	698	2	A54796	regulatory protein
166	28	68.3	705	2	S38066	probable finger pr
167	28	68.3	728	2	S43768	transcription acti
168	28	68.3	954	2	G86312	hypothetical prote
169	28	68.3	1027	2	AC1841	glycerophosphoryl
170	28	68.3	1035	2	T31336	sodium bicarbonate
171	28	68.3	1035	2	T13962	sodium bicarbonate
172	28	68.3	1035	2	T14110	sodium bicarbonate
173	28	68.3	1056	2	S55151	probable membrane
174	28	68.3	1079	2	PC7034	Na+ bicarbonate co
175	28	68.3	1079	2	T14031	sodium bicarbonate
176	28	68.3	1088	2	H96747	unknown protein T1
177	28	68.3	1160	2	T31688	Ca2+-transporting
178	28	68.3	1245	2	G88104	protein F40E12.2 [
179	28	68.3	1245	2	T31953	hypothetical prote
180	28	68.3	1353	2	JC4279	adenylate cyclase
181	28	68.3	1867	2	T38348	probable 1,3-beta-
182	28	68.3	3137	2	A37797	collagen alpha 3(V

183	28	68.3	4199	2	S76412	hypothetical prote
184	27.5	67.1	516	2	E84019	methylmalonyl-CoA
185	27	65.9	36	2	H82427	hypothetical prote
186	27	65.9	53	2	T13626	hypothetical prote
187	27	65.9	61	2	F82736	hypothetical prote
188	27	65.9	75	2	E70158	hypothetical prote
189	27	65.9	81	2	C72274	hypothetical prote
190	27	65.9	92	2	D83138	hypothetical prote
191	27	65.9	95	2	AD0480	hypothetical prote
192	27	65.9	104	2	AE2131	hypothetical prote
193	27	65.9	113	2	JC4143	molt-inhibiting ho
194	27	65.9	113	2	S39031	molt-inhibiting ho
195	27	65.9	128	2	F75322	hypothetical prote
196	27	65.9	128	2	F83482	hypothetical prote
197	27	65.9	137	2	AE1277	E. coli MutT prote
198	27	65.9	140	2	G82323	conserved hypothet
199	27	65.9	147	2	T24057	hypothetical prote
200	27	65.9	149	2	T08218	hypothetical prote
201	27	65.9	150	2	C75456	hypothetical prote
202	27	65.9	151	2	A40592	heat shock protein
203	27	65.9	151	2	G97355	molecular chaperon
204	27	65.9	153	2	D89940	hypothetical prote
205	27	65.9	154	2	S30728	hypothetical prote
206	27	65.9	158	2	S72832	transposase - Myco
207	27	65.9	160	2	C89832	hypothetical prote
208	27	65.9	167	2	F81263	probable lipoprote
209	27	65.9	185	2	D64021	hypothetical prote
210	27	65.9	186	2	AE1622	B. subtilis ComEB
211	27	65.9	186	2	S76056	hypothetical prote
212	27	65.9	186	2	AC1260	B. subtilis ComEB
213	27	65.9	190	2	G84182	hypothetical prote
214	27	65.9	193	2	AH2489	hypothetical prote
215	27	65.9	204	2	T41513	probable proteasom
216	27	65.9	204	2	H70008	hypothetical prote
217	27	65.9	204	2	C97084	hypothetical prote
218	27	65.9	217	2	F87372	peptide methionine
219	27	65.9	221	1	S02156	NADH2 dehydrogenas
220	27	65.9	221	2	C71056	hypothetical prote
221	27	65.9	224	2	E87256	NifU-like domain p
222	27	65.9	228	2	G97002	probable integral
223	27	65.9	230	2	H81401	hydrophobic protei
224	27	65.9	233	2	T32680	hypothetical prote
225	27	65.9	235	2	T08467	aspartate racemase
226	27	65.9	242	2	A45724	pectate lyase (EC
227	27	65.9	246	1	JH0216	phosducin, retinal
228	27	65.9	248	2	AB0177	probable short cha
229	27	65.9	249	2	S64798	ribonucleoprotein
230	27	65.9	249	2	AC2491	hypothetical prote
231	27	65.9	258	2	H65188	sec-independent pr
232	27	65.9	258	2	H91224	Sec-independent pr
233	27	65.9	258	2	F86071	sec-independent pr
234	27	65.9	259	2	T19091	hypothetical prote
235	27	65.9	264	2	F97086	anaerobic sulfite
236	27	65.9	265	2	C69978	glutamate racemase
237	27	65.9	265	2	T44414	hypothetical prote
238	27	65.9	270	2	S76411	hypothetical prote
239	27	65.9	271	2	B64932	hypothetical prote

240	27	65.9	271	2	T19654	hypothetical prote
241	27	65.9	273	2	AH2432	hypothetical prote
242	27	65.9	276	2	T32682	hypothetical prote
243	27	65.9	281	2	F69400	2-deoxy-D-gluconat
244	27	65.9	282	2	F86396	hypothetical prote
245	27	65.9	286	2	H64054	site-specific DNA-
246	27	65.9	292	2	G72530	probable nicotine
247	27	65.9	293	2	T49172	hypothetical prote
248	27	65.9	294	2	E69817	hypothetical prote
249	27	65.9	306	2	C70410	hypothetical prote
250	27	65.9	308	2	T21874	hypothetical prote
251	27	65.9	314	2	E84046	hypothetical prote
252	27	65.9	315	2	C90018	hypothetical prote
253	27	65.9	323	2	H86716	L-asparaginase [im
254	27	65.9	326	2	S28706	hypothetical prote
255	27	65.9	336	2	S04739	site-specific DNA-
256	27	65.9	346	2	T26097	hypothetical prote
257	27	65.9	347	2	G95402	hypothetical prote
258	27	65.9	361	2	F96034	probable sugar upt
259	27	65.9	362	2	T41910	hypothetical prote
260	27	65.9	363	2	T20745	hypothetical prote
261	27	65.9	368	2	T38901	probable dimeric d
262	27	65.9	374	2	T33844	hypothetical prote
263	27	65.9	374	2	AB1765	B. subtilis O-succ
264	27	65.9	376	2	A96951	TPR-repeat-contain
265	27	65.9	378	2	A39485	transforming prote
266	27	65.9	380	2	A95241	queuine tRNA-ribos
267	27	65.9	380	2	B98105	queuine tRNA-ribos
268	27	65.9	383	2	G84597	probable XAP-5 pro
269	27	65.9	385	2	G87340	aminotransferase,
270	27	65.9	393	2	D86168	hypothetical prote
271	27	65.9	393	2	B87548	hypothetical prote
272	27	65.9	394	2	S77272	hypothetical prote
273	27	65.9	398	2	A45633	rhoptry-associated
274	27	65.9	399	2	C81331	probable transmemb
275	27	65.9	400	2	AC2502	hypothetical prote
276	27	65.9	404	2	AB1336	argininosuccinate
277	27	65.9	405	2	D81918	sodium-translocati
278	27	65.9	405	2	G81184	Na(+)-translocatin
279	27	65.9	407	1	S65531	sodium-translocati
280	27	65.9	407	2	B71690	hypothetical prote
281	27	65.9	408	2	B82094	sodium-translocati
282	27	65.9	412	2	A84455	hypothetical prote
283	27	65.9	417	2	G64614	conserved hypothet
284	27	65.9	420	2	A82748	ubiquinol-cytochro
285	27	65.9	421	2	T31787	hypothetical prote
286	27	65.9	423	2	S69583	hypothetical prote
287	27	65.9	424	2	T41449	probable phd finge
288	27	65.9	431	2	G70344	probable glucose-6
289	27	65.9	439	2	D86440	unknown protein [i
290	27	65.9	441	1	E70461	pmbA protein - Aqu
291	27	65.9	442	2	A57044	alpha-1,6-mannosyl
292	27	65.9	445	2	T26762	hypothetical prote
293	27	65.9	445	2	JC7861	caspase-associated
294	27	65.9	446	2	S35524	telomere-binding p
295	27	65.9	446	2	AG0191	probable sugar tra
296	27	65.9	447	2	S66256	alpha-1,6-mannosyl

297	27	65.9	460	2	T27770	hypothetical prote
298	27	65.9	461	2	H90090	hypothetical prote
299	27	65.9	470	2	S78440	phosphoglucomutase
300	27	65.9	470	2	AI3442	glycolate oxidase
301	27	65.9	478	2	AI2441	phosphoglucomutase
302	27	65.9	480	1	C69378	4-hydroxyphenylace
303	27	65.9	483	2	S69894	major DNA-binding
304	27	65.9	485	2	T19853	hypothetical prote
305	27	65.9	488	2	A82115	sigma-54 dependent
306	27	65.9	493	2	G69401	lysyl-tRNA synthet
307	27	65.9	501	2	S16711	ABC1 protein precu
308	27	65.9	505	2	E87021	probable integral-
309	27	65.9	506	2	T41079	probable alpha 1,2
310	27	65.9	513	2	S26704	NADH2 dehydrogenas
311	27	65.9	521	2	AC1525	internalin like pr
312	27	65.9	542	2	T48488	hypothetical prote
313	27	65.9	555	2	AG3050	conserved hypothet
314	27	65.9	555	2	E98235	hypothetical prote
315	27	65.9	557	2	B86466	hypothetical prote
316	27	65.9	560	1	RGNVPM	trans-activating t
317	27	65.9	560	2	T10414	immediate early pr
318	27	65.9	568	2	C97793	30S ribosomal prot
319	27	65.9	576	1	B70558	probable ABC trans
320	27	65.9	580	2	G72202	beta transducin-re
321	27	65.9	582	2	F71431	hypothetical prote
322	27	65.9	584	2	S75944	hypothetical prote
323	27	65.9	590	2	T45820	hypothetical prote
324	27	65.9	597	2	T01808	hypothetical prote
325	27	65.9	602	2	G97784	hypothetical prote
326	27	65.9	612	2	G83307	hypothetical prote
327	27	65.9	625	2	AB3046	conserved hypothet
328	27	65.9	625	2	B98240	hypothetical prote
329	27	65.9	627	2	AH2851	hypothetical prote
330	27	65.9	631	1	JC4602	protein kinase (EC
331	27	65.9	631	2	E83778	serine protein kin
332	27	65.9	660	2	C95287	conserved hypothet
333	27	65.9	661	2	A95387	hypothetical prote
334	27	65.9	694	2	H95012	hypothetical prote
335	27	65.9	697	1	TVVPTL	large T antigen -
336	27	65.9	702	2	C97884	hypothetical prote
337	27	65.9	702	2	F97628	ATP-binding protei
338	27	65.9	747	2	T34329	hypothetical prote
339	27	65.9	750	2	D88082	protein T05A8.4 [i
340	27	65.9	768	2	B41029	integrin beta-8 ch
341	27	65.9	769	2	A41029	integrin beta-8 ch
342	27	65.9	774	2	T21459	hypothetical prote
343	27	65.9	783	2	A87438	DNA ligase, NAD-de
344	27	65.9	791	2	A99514	hypothetical prote
345	27	65.9	865	2	T30998	hypothetical prote
346	27	65.9	879	2	E69792	conserved hypothet
347	27	65.9	880	2	T19076	hypothetical prote
348	27	65.9	899	2	C84765	hypothetical prote
349	27	65.9	930	2	A95193	isoleucyl-tRNA syn
350	27	65.9	930	2	E98059	isoleucine-tRNA li
351	27	65.9	949	2	T38543	hypothetical prote
352	27	65.9	996	2	E98092	cylM protein, cyto
353	27	65.9	996	2	A95228	bacteriocin format

354	27	65.9	1021	2	T08601	hypothetical prote
355	27	65.9	1071	2	T43255	tricorn proteinase
356	27	65.9	1079	2	T28197	probable DNA-direc
357	27	65.9	1153	2	B97718	hypothetical prote
358	27	65.9	1155	2	B71720	hypothetical prote
359	27	65.9	1231	2	T24415	hypothetical prote
360	27	65.9	1266	2	T27024	hypothetical prote
361	27	65.9	1309	2	H96650	protein T3P18.3 [i
362	27	65.9	1321	2	T51623	aldehyde oxidase (
363	27	65.9	1525	2	T01661	probable DNA (cyto
364	27	65.9	1647	2	T32934	hypothetical prote
365	27	65.9	1713	2	A55347	adhesive ligand ep
366	27	65.9	1768	2	T27023	hypothetical prote
367	27	65.9	1785	2	S53976	probable membrane
368	27	65.9	1820	2	S71853	genome polyprotein
369	27	65.9	1843	2	S18803	collagen alpha 1(V
370	27	65.9	1998	2	T08822	nonstructural poly
371	27	65.9	2167	2	S19444	hypothetical prote
372	27	65.9	3375	2	T19821	hypothetical prote
373	27	65.9	3746	1	YGPLV3	alpha-aminoadipyl-
374	27	65.9	3791	1	YGPLV8	alpha-aminoadipyl-
375	26.5	64.6	653	2	D87602	sensory box histid
376	26	63.4	32	2	D64571	hypothetical prote
377	26	63.4	32	2	S67962	valine-tRNA ligase
378	26	63.4	58	2	E57256	hypothetical prote
379	26	63.4	81	2	E95013	hypothetical prote
380	26	63.4	96	2	T34068	hypothetical prote
381	26	63.4	99	2	H97886	hypothetical prote
382	26	63.4	100	2	AF1550	B. subtilis YneR p
383	26	63.4	115	2	AE0523	conserved hypothet
384	26	63.4	116	2	E86633	hypothetical prote
385	26	63.4	119	2	D69345	LSU ribosomal prot
386	26	63.4	120	2	E84271	30S ribosomal prot
387	26	63.4	122	2	T07295	hypothetical prote
388	26	63.4	128	2	S49637	probable membrane
389	26	63.4	144	2	D70196	hypothetical prote
390	26	63.4	151	2	G90036	hypothetical prote
391	26	63.4	156	2	F85495	hypothetical prote
392	26	63.4	156	2	B64735	yacC protein - Esc
393	26	63.4	156	2	F90644	hypothetical prote
394	26	63.4	159	2	D95261	conserved hypothet
395	26	63.4	159	2	A98127	conserved hypothet
396	26	63.4	159	2	T32098	hypothetical prote
397	26	63.4	161	1	VCTMCP	coat protein - sun
398	26	63.4	162	2	G72015	hypothetical prote
399	26	63.4	162	2	F86608	hypothetical prote
400	26	63.4	162	2	G64153	2-demethylmenaquin
401	26	63.4	164	2	G81321	probable integral
402	26	63.4	164	2	A81332	hypothetical prote
403	26	63.4	165	2	E70486	hypothetical prote
404	26	63.4	175	2	T29180	hypothetical prote
405	26	63.4	182	2	T06198	lipoxygenase (EC 1
406	26	63.4	186	2	S74835	hypothetical prote
407	26	63.4	190	2	AB3478	nifU protein [impo
408	26	63.4	192	2	S74627	hypothetical prote
409	26	63.4	196	2	S47481	tex261 protein - m
410	26	63.4	197	2	F86324	protein F14D16.29

411	26	63.4	200	2	S73781	hypothetical prote
412	26	63.4	206	2	H69395	conserved hypothet
413	26	63.4	210	2	E84943	DNA-(apurinic or a
414	26	63.4	214	2	A86670	hypothetical prote
415	26	63.4	218	2	B82226	thiopurine methylt
416	26	63.4	219	2	T30009	hypothetical prote
417	26	63.4	221	2	D95277	hypothetical prote
418	26	63.4	222	2	H71408	probable germin ty
419	26	63.4	225	2	S56598	probable phosphata
420	26	63.4	225	2	D91295	probable phosphata
421	26	63.4	225	2	F86136	probable phosphata
422	26	63.4	225	2	S50458	hypothetical prote
423	26	63.4	226	2	AC1072	conserved hypothet
424	26	63.4	226	2	T20447	hypothetical prote
425	26	63.4	228	2	H81789	conserved hypothet
426	26	63.4	228	2	B81214	conserved hypothet
427	26	63.4	230	2	B90525	protoporphirogen o
428	26	63.4	239	2	B70465	probable export pr
429	26	63.4	240	2	C71277	hypothetical prote
430	26	63.4	244	2	T19636	hypothetical prote
431	26	63.4	245	2	AG1461	probable phospho-b
432	26	63.4	245	2	AH1098	a probable phospho
433	26	63.4	248	2	D71672	hypothetical prote
434	26	63.4	248	2	T20027	hypothetical prote
435	26	63.4	250	2	AF2881	lipase esterase [i
436	26	63.4	250	2	F97657	lipase esterase (A
437	26	63.4	255	2	H71154	probable competenc
438	26	63.4	256	2	T00165	repressor - Staphy
439	26	63.4	257	2	S00682	IgE Fc receptor al
440	26	63.4	257	2	C69862	conserved hypothet
441	26	63.4	259	2	AG0915	sec-independent pr
442	26	63.4	259	2	T20205	hypothetical prote
443	26	63.4	260	2	G69900	hypothetical prote
444	26	63.4	266	2	D82979	probable transcrip
445	26	63.4	270	2	T19033	hypothetical prote
446	26	63.4	271	2	A45606	DNA-binding protei
447	26	63.4	274	2	T26658	hypothetical prote
448	26	63.4	276	2	D87323	chemotaxis protein
449	26	63.4	277	2	A46510	intercellular adhe
450	26	63.4	280	2	S61111	GPI2 protein - yea
451	26	63.4	283	2	AH1787	probable transcrip
452	26	63.4	283	2	AI1411	probable transcrip
453	26	63.4	292	2	A49539	xyloglucan endo-1,
454	26	63.4	293	2	T10523	xyloglucan endo-1,
455	26	63.4	293	2	T48975	xyloglucan endo-tr
456	26	63.4	299	2	E95923	probable glycosylt
457	26	63.4	300	2	E87428	conserved hypothet
458	26	63.4	303	2	F84220	citrate (pro-3S)-l
459	26	63.4	305	2	T22009	hypothetical prote
460	26	63.4	307	2	T19906	hypothetical prote
461	26	63.4	320	2	T42563	ribonucleoside-dip
462	26	63.4	321	2	E81725	MesJ/Ycf62 family
463	26	63.4	324	2	JG0163	glucuronyltransfer
464	26	63.4	325	2	T24737	hypothetical prote
465	26	63.4	326	2	B84383	porphobilinogen sy
466	26	63.4	327	2	B71146	probable glucose-1
467	26	63.4	327	2	S26647	phosphoprotein - P

468	26	63.4	328	2	B49543	maltosaccharide ut
469	26	63.4	328	2	B95247	maltose operon tra
470	26	63.4	328	2	G98111	maltose operon tra
471	26	63.4	329	2	D88109	protein T24E12.6 [
472	26	63.4	331	2	G84981	DNA-directed DNA p
473	26	63.4	337	2	AG0963	hypothetical prote
474	26	63.4	338	2	E97086	anaerobic sulfite
475	26	63.4	343	2	H82429	transcription regu
476	26	63.4	345	2	AI2217	low specificity L-
477	26	63.4	347	2	H96504	hypothetical prote
478	26	63.4	347	2	JC7828	glucuronyltransfer
479	26	63.4	348	2	H89007	protein F59B1.1 [i
480	26	63.4	352	2	T09760	chymopapain (EC 3.
481	26	63.4	352	2	C84603	probable pectinest
482	26	63.4	352	2	AB3079	transcription regu
483	26	63.4	352	2	G98207	hypothetical prote
484	26	63.4	358	2	AC1062	protein kinase [im
485	26	63.4	362	2	JC5386	steroidogenic acut
486	26	63.4	364	2	A56689	aminomethyltransfe
487	26	63.4	364	2	H91100	aminomethyltransfe
488	26	63.4	364	2	D85946	aminomethyltransfe
489	26	63.4	364	2	AE0873	aminomethyltransfe
490	26	63.4	364	2	T24418	hypothetical prote
491	26	63.4	365	1	B64228	hypothetical prote
492	26	63.4	368	2	AH3202	conserved hypothet
493	26	63.4	369	2	A75091	phosphonoacetate h
494	26	63.4	371	2	D83650	DNA repair and gen
495	26	63.4	373	2	S57262	actin - red alga (
496	26	63.4	373	2	JQ1648	SHL2 protein - hum
497	26	63.4	376	1	ATAXE	actin - Entamoeba
498	26	63.4	380	2	F70399	hydrogenase expres
499	26	63.4	381	2	T34333	hypothetical prote
500	26	63.4	382	1	E64209	prolipoprotein dia
501	26	63.4	387	2	S07749	hypothetical prote
502	26	63.4	389	2	T03691	calreticulin - com
503	26	63.4	394	2	S26431	intermediate filam
504	26	63.4	395	2	T32309	hypothetical prote
505	26	63.4	396	2	A95038	glucuronyl hydrola
506	26	63.4	396	2	D97908	unsaturated glucur
507	26	63.4	398	2	S44028	actin-related prot
508	26	63.4	398	2	F84957	1-deoxy-D-xylulose
509	26	63.4	398	2	F72335	hypothetical prote
510	26	63.4	404	1	S03849	ribonucleoprotein
511	26	63.4	405	1	CBQFR	ubiquinol-cytochro
512	26	63.4	407	2	AB0393	NADH2 dehydrogenas
513	26	63.4	415	1	JC1494	ribonucleoprotein
514	26	63.4	415	2	T00678	hypothetical prote
515	26	63.4	416	2	T16968	calreticulin cal1
516	26	63.4	417	1	S20608	heat shock protein
517	26	63.4	417	1	A40968	heat shock protein
518	26	63.4	417	1	A42843	heat shock protein
519	26	63.4	417	2	H71898	hypothetical prote
520	26	63.4	418	2	I52968	colligin-2 - human
521	26	63.4	425	2	B43717	raffinose permease
522	26	63.4	432	2	S26432	intermediate filam
523	26	63.4	434	2	T26275	hypothetical prote
524	26	63.4	436	2	AH1387	cell wall binding

525	26	63.4	437	2	AB1763	cell wall binding
526	26	63.4	438	2	A57219	Batten disease-rel
527	26	63.4	446	2	H90063	hypothetical prote
528	26	63.4	449	2	T44643	galactosyl transfe
529	26	63.4	456	2	D95384	protein [imported
530	26	63.4	468	2	A49131	inositol 1,4,5-tri
531	26	63.4	470	2	S39561	ribulose-bisphosph
532	26	63.4	471	1	A41706	tryptophan-tRNA li
533	26	63.4	475	1	RKITL	ribulose-bisphosph
534	26	63.4	475	1	YWBO	tryptophan-tRNA li
535	26	63.4	475	1	YWRBPR	tryptophan-tRNA li
536	26	63.4	475	2	C84605	hypothetical prote
537	26	63.4	476	2	H89773	hypothetical prote
538	26	63.4	481	2	S50053	tryptophan-tRNA li
539	26	63.4	488	2	S78236	ribulose-bisphosph
540	26	63.4	488	2	T16402	hypothetical prote
541	26	63.4	498	2	S49776	hypothetical prote
542	26	63.4	502	1	I30010	NADH2 dehydrogenas
543	26	63.4	511	1	VGVN	spike glycoprotein
544	26	63.4	512	2	C91268	transcription acti
545	26	63.4	512	2	A86109	transcription acti
546	26	63.4	512	2	C41968	transcription acti
547	26	63.4	516	2	S06443	dnaK-type molecula
548	26	63.4	522	2	C81826	hypothetical integ
549	26	63.4	525	1	C49851	protochlorophyllid
550	26	63.4	534	1	S73804	MG255 homolog H91_
551	26	63.4	534	2	T50730	protochlorophyllid
552	26	63.4	541	1	ODZJ1	cytochrome-c oxida
553	26	63.4	542	2	E90604	hypothetical prote
554	26	63.4	543	2	G95118	RNA methyltransfer
555	26	63.4	543	2	D97988	conserved hypothet
556	26	63.4	548	2	D69187	probable acid-CoA
557	26	63.4	552	2	AC3435	cytochrome-c oxida
558	26	63.4	563	2	AD0488	probable membrane
559	26	63.4	569	2	S11035	chaperonin hsp60,
560	26	63.4	595	2	D83806	aspartyl-tRNA synt
561	26	63.4	610	1	GVBPT4	gene 17 protein -
562	26	63.4	615	2	C97723	aspartate-tRNA lig
563	26	63.4	617	2	C95906	hypothetical prote
564	26	63.4	624	2	T44840	probable dTDPgluco
565	26	63.4	631	2	E71933	hypothetical prote
566	26	63.4	643	2	E82481	methyl-accepting c
567	26	63.4	646	2	G69157	excinuclease ABC c
568	26	63.4	653	2	S11448	dnaK-type molecula
569	26	63.4	653	2	S52727	dnaK-type molecula
570	26	63.4	657	2	B72034	excinuclease ABC,
571	26	63.4	657	2	G86590	exinuclease ABC su
572	26	63.4	660	2	C84099	excinuclease ABC (
573	26	63.4	662	2	G95143	excinuclease ABC,
574	26	63.4	662	2	E98011	exonuclease ABC ch
575	26	63.4	663	2	B70460	excinuclease ABC c
576	26	63.4	668	2	A42385	excinuclease ABC c
577	26	63.4	670	2	G96790	hypothetical prote
578	26	63.4	676	2	D81654	excinuclease ABC c
579	26	63.4	692	2	B86695	excinuclease ABC s
580	26	63.4	698	2	G70559	probable uvrB prot
581	26	63.4	698	2	E87082	excinuclease ABC s

582	26	63.4	702	2	A34434	arylphorin alpha c
583	26	63.4	702	2	A61619	arylphorin precurs
584	26	63.4	703	2	B34434	arylphorin beta ch
585	26	63.4	703	2	T04191	hypothetical prote
586	26	63.4	704	2	A34287	storage protein 2
587	26	63.4	708	2	I76774	hypothetical prote
588	26	63.4	716	2	B72258	hypothetical prote
589	26	63.4	732	2	B69749	hypothetical prote
590	26	63.4	733	2	T24977	hypothetical prote
591	26	63.4	734	1	S26072	photosystem I prot
592	26	63.4	749	2	A45046	basic juvenile hor
593	26	63.4	755	2	B95342	NosR Regulatory pr
594	26	63.4	762	2	H87466	beta-D-glucosidase
595	26	63.4	770	2	G88445	protein C26E6.2 [i
596	26	63.4	771	2	T13618	hypothetical prote
597	26	63.4	779	2	T44659	nitrous oxide redu
598	26	63.4	785	2	S31299	pre-tRNA processin
599	26	63.4	786	2	D75630	glycerophosphoryl
600	26	63.4	788	2	C84616	similar to mammali
601	26	63.4	796	2	T03746	hypothetical prote
602	26	63.4	804	2	T25673	hypothetical prote
603	26	63.4	806	2	A71979	hypothetical prote
604	26	63.4	811	2	S39901	nwsA protein - Bra
605	26	63.4	829	2	S58888	Ins P4-binding pro
606	26	63.4	829	2	S71847	Ins P4-binding pro
607	26	63.4	841	2	T20221	hypothetical prote
608	26	63.4	850	2	JC5047	ras GTPase-activat
609	26	63.4	858	2	D83491	probable sensor/re
610	26	63.4	862	2	T05941	lipoxygenase (EC 1
611	26	63.4	864	2	T05945	lipoxygenase (EC 1
612	26	63.4	865	2	A25762	regulatory protein
613	26	63.4	879	2	S55864	hypothetical prote
614	26	63.4	898	2	S76431	endopeptidase Clp
615	26	63.4	904	1	RGBYP1	regulatory protein
616	26	63.4	906	2	T48898	disease resistance
617	26	63.4	908	2	T48899	disease resistance
618	26	63.4	937	2	C97168	glycosyltransferas
619	26	63.4	939	2	AF2503	hypothetical prote
620	26	63.4	939	2	T05209	hypothetical prote
621	26	63.4	949	2	D82293	isoleucyl-tRNA syn
622	26	63.4	949	2	F90086	chromosomal region
623	26	63.4	964	2	T15342	hypothetical prote
624	26	63.4	980	2	S54986	regulatory protein
625	26	63.4	983	2	H64587	cag pathogenicity
626	26	63.4	983	2	F71926	cag pathogenicity
627	26	63.4	986	2	AB2209	two-component sens
628	26	63.4	1003	2	H82883	hypothetical prote
629	26	63.4	1019	2	T40813	probable cell divi
630	26	63.4	1042	2	G64514	type I restriction
631	26	63.4	1074	2	F72217	conserved hypothet
632	26	63.4	1077	2	A97306	superfamily II DNA
633	26	63.4	1088	2	T41671	hypothetical prote
634	26	63.4	1163	2	D64315	type I restriction
635	26	63.4	1164	2	T06144	disease resistance
636	26	63.4	1280	2	T51500	hypothetical prote
637	26	63.4	1291	2	T13389	hypothetical prote
638	26	63.4	1333	2	G84542	probable retroelem

639	26	63.4	1339	2	T38991	conserved hypothet
640	26	63.4	1360	2	JC5839	GTBP-N protein - h
641	26	63.4	1447	2	S50918	DNA helicase TPS1
642	26	63.4	1490	2	F88311	protein T06D8.10 [
643	26	63.4	1490	2	T24502	hypothetical prote
644	26	63.4	1613	2	D90129	hypothetical prote
645	26	63.4	1661	2	T21986	hypothetical prote
646	26	63.4	1663	2	T21993	hypothetical prote
647	26	63.4	1697	2	T00079	hypothetical prote
648	26	63.4	2149	2	C96695	ribulose bisphosph
649	26	63.4	2199	2	T40008	Cdc20p - fission y
650	26	63.4	2670	2	A46719	inositol 1,4,5-tri
651	26	63.4	2671	2	A49873	inositol 1,4,5-tri
652	26	63.4	2693	2	A40743	IP3 receptor, XIP3
653	26	63.4	2695	2	S54974	type 1 inositol 1,
654	26	63.4	2713	2	A55713	inositol 1,4,5-tri
655	26	63.4	2734	2	B36579	inositol 1,4,5-tri
656	26	63.4	2749	1	ACMSIT	inositol 1,4,5-tri
657	26	63.4	2749	2	A36579	inositol 1,4,5-tri
658	26	63.4	2833	2	A43360	inositol 1,4,5-tri
659	26	63.4	3068	1	A44062	genome polyprotein
660	26	63.4	3097	2	T28635	glutamate synthase
661	26	63.4	3973	2	B71612	hypothetical prote
662	25	61.0	49	2	C82788	hypothetical prote
663	25	61.0	52	2	T33553	hypothetical prote
664	25	61.0	64	2	G97027	hypothetical prote
665	25	61.0	69	2	C72262	hypothetical prote
666	25	61.0	86	2	H82855	hypothetical prote
667	25	61.0	88	2	I47758	retrovirus-related
668	25	61.0	94	4	S57549	hypothetical prote
669	25	61.0	95	2	B72030	yops translocation
670	25	61.0	95	2	F86593	YopS translocation
671	25	61.0	100	2	C97855	beta-lactamase hom
672	25	61.0	104	2	F72590	hypothetical prote
673	25	61.0	106	2	E82605	conjugal transfer
674	25	61.0	109	2	A64120	probable sulfite r
675	25	61.0	111	2	T12857	hypothetical prote
676	25	61.0	111	2	S64475	hypothetical prote
677	25	61.0	117	2	S07933	hypothetical prote
678	25	61.0	117	2	B81181	hypothetical prote
679	25	61.0	117	2	A81925	hypothetical prote
680	25	61.0	118	2	F83810	hypothetical prote
681	25	61.0	125	2	AD1180	conserved hypothet
682	25	61.0	125	2	AE1537	conserved hypothet
683	25	61.0	127	2	E97294	uncharacterized pr
684	25	61.0	131	2	E70611	hypothetical prote
685	25	61.0	132	2	I40566	hypothetical prote
686	25	61.0	132	2	A97204	probable aldoketom
687	25	61.0	135	2	AB2570	hypothetical prote
688	25	61.0	135	2	A97094	uncharacterized pr
689	25	61.0	141	2	D75155	acetyl transferase
690	25	61.0	142	2	T23519	hypothetical prote
691	25	61.0	146	2	H84215	hypothetical prote
692	25	61.0	149	2	F71252	nucleoside-diphosp
693	25	61.0	149	2	F97485	hypothetical prote
694	25	61.0	151	2	G86760	diacylglycerol kin
695	25	61.0	151	2	H75298	probable thiol-spe

696	25	61.0	153	1	QQVZF7	F7 protein - vacci
697	25	61.0	153	2	D42513	J1R protein - vacc
698	25	61.0	153	2	T37361	dimeric virion pro
699	25	61.0	157	2	S76232	hypothetical prote
700	25	61.0	157	2	B83066	hypothetical prote
701	25	61.0	159	2	D72160	M1R protein - vari
702	25	61.0	159	2	S33092	J1R protein - vari
703	25	61.0	159	2	T28516	hypothetical prote
704	25	61.0	159	2	I55083	2C-methyl-D-erythr
705	25	61.0	159	2	A85924	2C-methyl-D-erythr
706	25	61.0	159	2	AD0856	2C-methyl-D-erythr
707	25	61.0	159	2	H91078	2C-methyl-D-erythr
708	25	61.0	160	2	A60292	pheromone-binding
709	25	61.0	161	2	A39824	5-lipoxygenase-act
710	25	61.0	161	2	S08206	5-lipoxygenase-act
711	25	61.0	166	2	A42524	A-ORF-E protein -
712	25	61.0	166	2	G95109	acetyltransferase,
713	25	61.0	166	2	B97978	hypothetical prote
714	25	61.0	167	2	G64183	hypothetical prote
715	25	61.0	168	2	S41973	serine proteinase
716	25	61.0	172	2	T32120	hypothetical prote
717	25	61.0	173	2	T02332	probable HMG prote
718	25	61.0	176	2	G90357	dTDP-4-dehydrorham
719	25	61.0	178	2	G84357	probable acetyltra
720	25	61.0	181	2	E69900	hypothetical prote
721	25	61.0	184	2	S74574	bacterioferritin c
722	25	61.0	185	2	S76844	hypothetical prote
723	25	61.0	186	2	AB1493	probable transcrip
724	25	61.0	186	2	AI1134	probable transcrip
725	25	61.0	188	2	S77089	hypothetical prote
726	25	61.0	190	2	A81334	recombination prot
727	25	61.0	190	2	S48101	xyloglucan endo-1,
728	25	61.0	190	2	E95030	conserved hypothet
729	25	61.0	190	2	G97901	hypothetical prote
730	25	61.0	193	2	F97212	probable phosphata
731	25	61.0	194	2	F86689	prophage ps2 prote
732	25	61.0	198	2	B64229	phosphogluconate d
733	25	61.0	199	2	T28981	hypothetical prote
734	25	61.0	201	2	H84990	50S ribosomal prot
735	25	61.0	203	2	A96595	hypothetical prote
736	25	61.0	206	2	T33097	hypothetical prote
737	25	61.0	208	2	F71314	probable transcrip
738	25	61.0	210	2	G97037	hypothetical prote
739	25	61.0	212	2	T47947	hypothetical prote
740	25	61.0	215	2	T14779	hypothetical prote
741	25	61.0	217	2	A64666	glutamine ABC tran
742	25	61.0	219	2	C70659	probable lipoprote
743	25	61.0	220	2	D70659	probable lipoprote
744	25	61.0	220	2	F75030	hypothetical prote
745	25	61.0	225	2	D71216	hypothetical prote
746	25	61.0	228	2	AE1625	two-component resp
747	25	61.0	228	2	T47847	hypothetical prote
748	25	61.0	228	2	T48549	hypothetical prote
749	25	61.0	235	2	S39736	ywfC protein - Bac
750	25	61.0	235	2	I40230	hypothetical prote
751	25	61.0	236	2	D86778	acetolactate decar
752	25	61.0	236	2	D72355	conserved hypothet

753	25	61.0	236	2	A81690	conserved hypothet
754	25	61.0	237	2	F70446	conserved hypothet
755	25	61.0	240	2	G71062	hypothetical prote
756	25	61.0	243	2	A70670	hypothetical prote
757	25	61.0	244	1	F64041	hypothetical prote
758	25	61.0	246	2	H97182	uncharacterized co
759	25	61.0	247	1	A69108	probable phosphoes
760	25	61.0	250	2	T01604	hypothetical prote
761	25	61.0	251	2	F96008	hypothetical prote
762	25	61.0	252	2	H82219	conserved hypothet
763	25	61.0	253	2	C81287	probable methyltra
764	25	61.0	254	2	H69057	hypothetical prote
765	25	61.0	257	2	I40170	hypothetical prote
766	25	61.0	259	2	C95939	probable spermidin
767	25	61.0	259	2	AC3100	ABC transporter, m
768	25	61.0	259	2	G98186	hypothetical prote
769	25	61.0	260	2	B84012	N-acetylglutamate
770	25	61.0	260	2	G87349	conserved hypothet
771	25	61.0	263	2	T01151	probable acetone-c
772	25	61.0	263	2	B70153	conserved hypothet
773	25	61.0	265	2	C72066	rRNA methylase - C
774	25	61.0	265	2	F86556	rRNA methylase [im
775	25	61.0	267	2	T46202	endoxyloglucan tra
776	25	61.0	268	2	AD2622	conserved hypothet
777	25	61.0	269	2	I83198	syntaxin 3C - mous
778	25	61.0	270	2	T26480	hypothetical prote
779	25	61.0	271	1	A43744	N-acylmannosamine
780	25	61.0	273	2	D82870	conserved hypothet
781	25	61.0	275	2	A96552	unknown protein, 9
782	25	61.0	278	2	D82402	hypothetical prote
783	25	61.0	280	2	A81746	chromosome partion
784	25	61.0	281	2	E75267	hypothetical prote
785	25	61.0	281	2	F96736	unknown protein F2
786	25	61.0	283	1	MMBYP	porin - yeast (Sac
787	25	61.0	284	2	G96589	T22H22.18 [importe
788	25	61.0	288	2	H86888	pseudouridine synt
789	25	61.0	289	2	G96981	ABC-type sugar tra
790	25	61.0	290	2	A64693	fructose-1,6-bisph
791	25	61.0	290	2	H71807	fructose-1,6-bisph
792	25	61.0	290	2	T24926	hypothetical prote
793	25	61.0	295	2	S48102	xyloglucan endo-1,
794	25	61.0	296	2	AB3611	hypothetical membr
795	25	61.0	298	2	S31814	ADP,ATP carrier pr
796	25	61.0	298	2	AG2997	glutathione S-tran
797	25	61.0	299	1	ZBBEI3	33.1K zinc-binding
798	25	61.0	300	2	T38986	probable c-4 methy
799	25	61.0	301	2	G71206	tryptophan-tRNA li
800	25	61.0	302	2	AF2651	ABC transporter, m
801	25	61.0	303	2	S47526	ribonucleoside-dip
802	25	61.0	303	2	A69542	conserved hypothet
803	25	61.0	303	2	B96909	probable permease
804	25	61.0	304	2	C71525	probable sulfatase
805	25	61.0	304	2	G81681	AtsA/ElaC family p
806	25	61.0	306	2	D90670	hypothetical prote
807	25	61.0	306	2	G85520	hypothetical prote
808	25	61.0	306	2	D97404	probable dapE gene
809	25	61.0	308	2	H90452	conserved hypothet

810	25	61.0	309	2	AD3594	transporter, dme f
811	25	61.0	310	2	S52504	probable membrane
812	25	61.0	313	2	E81941	hypothetical prote
813	25	61.0	317	2	T09089	glucose-6-phosphat
814	25	61.0	317	2	S74422	phosphate transpor
815	25	61.0	317	2	H82785	dolichol-phosphate
816	25	61.0	318	2	E87637	hypothetical prote
817	25	61.0	318	2	B98286	hypothetical prote
818	25	61.0	319	2	AG1169	hypothetical prote
819	25	61.0	319	2	AI1526	hypothetical prote
820	25	61.0	320	2	T33662	hypothetical prote
821	25	61.0	321	2	C70447	phosphofructokinas
822	25	61.0	321	2	E97741	D-alanine-D-alanin
823	25	61.0	321	2	E97433	polyamine transpor
824	25	61.0	324	2	C90492	hypothetical prote
825	25	61.0	324	2	H96746	RING-H2 zinc finge
826	25	61.0	326	2	A83087	conserved hypothet
827	25	61.0	326	2	A82065	conserved hypothet
828	25	61.0	328	1	G65110	hypothetical 35.2
829	25	61.0	328	2	D91138	probable isomerase
830	25	61.0	328	2	G85983	probable isomerase
831	25	61.0	328	2	AB0905	conserved hypothet
832	25	61.0	328	2	T36200	probable DNA polym
833	25	61.0	328	2	T29002	hypothetical prote
834	25	61.0	329	2	E95910	hypothetical prote
835	25	61.0	330	2	G87401	epoxide hydrolase
836	25	61.0	330	2	D70348	ADP-ribosylglycohy
837	25	61.0	331	2	T22873	hypothetical prote
838	25	61.0	332	2	C83682	hypothetical prote
839	25	61.0	332	2	B71606	probable integral
840	25	61.0	333	2	B82684	polysialic acid ca
841	25	61.0	336	2	AC1979	ferric iron-bindin
842	25	61.0	336	2	B70102	conserved hypothet
843	25	61.0	336	2	H71103	hypothetical prote
844	25	61.0	336	2	G84025	polysugar degradin
845	25	61.0	337	1	WMBEB2	ribonucleoside-dip
846	25	61.0	337	1	WMBE32	ribonucleoside-dip
847	25	61.0	337	2	E95913	hypothetical prote
848	25	61.0	339	2	G82596	phage-related prot
849	25	61.0	341	2	A64383	hypothetical prote
850	25	61.0	342	2	E69581	acetoin dehydrogen
851	25	61.0	344	1	WMBE31	38K protein - huma
852	25	61.0	344	2	E84913	hypothetical prote
853	25	61.0	344	2	T19639	hypothetical prote
854	25	61.0	345	2	H90515	lipoate-protein li
855	25	61.0	346	2	AC3108	hypothetical prote
856	25	61.0	346	2	T31719	hypothetical prote
857	25	61.0	347	2	D98333	probable transcrip
858	25	61.0	349	2	T12120	NADH dehydrogenase
859	25	61.0	350	2	S34557	hypothetical prote
860	25	61.0	350	2	B39364	GDF-1 embryonic gr
861	25	61.0	352	2	C90547	oligopeptide ABC t
862	25	61.0	352	2	B97274	O-actetyl transfer
863	25	61.0	354	1	RGFFO2	GTP-binding regula
864	25	61.0	354	1	RGFFO1	GTP-binding regula
865	25	61.0	354	2	A61035	GTP-binding regula
866	25	61.0	356	2	B71023	hypothetical prote

867	25	61.0	357	2	B84041	sulfate ABC transp
868	25	61.0	357	2	B84678	hypothetical prote
869	25	61.0	357	2	S19457	probable membrane
870	25	61.0	359	2	I51372	angiotensin II rec
871	25	61.0	362	2	S45887	ribosomal protein
872	25	61.0	362	2	S50993	ribosomal protein
873	25	61.0	362	2	A72061	ct474 hypothetical
874	25	61.0	362	2	D81606	conserved hypothet
875	25	61.0	362	2	F86564	CT474 hypothetical
876	25	61.0	362	2	E71637	hypothetical prote
877	25	61.0	362	2	G97849	hypothetical prote
878	25	61.0	363	2	F88951	protein C38C3.1 [i
879	25	61.0	364	1	C69351	probable iron-sulf
880	25	61.0	367	2	A83681	ABC transporter (p
881	25	61.0	370	2	S27779	major merozoite su
882	25	61.0	370	2	T47131	G-protein coupled
883	25	61.0	371	2	A98179	ABC transporter, A
884	25	61.0	371	2	H97452	cytochrome c oxida
885	25	61.0	379	2	S27502	hypothetical prote
886	25	61.0	383	2	C71683	rod shape-determin
887	25	61.0	383	2	A83603	glycerophosphoryl
888	25	61.0	384	2	T41907	hypothetical prote
889	25	61.0	385	2	C75020	tryptophanyl-tRNA
890	25	61.0	389	2	F86212	hypothetical prote
891	25	61.0	390	2	C75103	na+/h+ antiporter
892	25	61.0	392	2	D91185	probable regulator
893	25	61.0	392	2	B86032	probable regulator
894	25	61.0	392	2	E97330	probable MDR-type
895	25	61.0	392	2	S47790	xylose operon regu
896	25	61.0	392	2	AB0980	xylose operon regu
897	25	61.0	393	2	S57671	hypothetical prote
898	25	61.0	395	2	S25851	calreticulin precu
899	25	61.0	396	2	B43706	nitrogenase cofact
900	25	61.0	397	2	AG0490	probable AraC-fami
901	25	61.0	399	2	T31789	hypothetical prote
902	25	61.0	400	2	F75275	chromate transport
903	25	61.0	400	2	H87444	hypothetical prote
904	25	61.0	401	2	B72329	hypothetical prote
905	25	61.0	401	2	D83873	hypothetical prote
906	25	61.0	402	2	S29757	nitrogenase cofact
907	25	61.0	402	2	B90322	glycosyltransferas
908	25	61.0	405	1	JH0795	calreticulin precu
909	25	61.0	407	2	T37888	hypothetical prote
910	25	61.0	410	2	G87317	hydrolase, alpha/b
911	25	61.0	411	2	S29129	calreticulin precu
912	25	61.0	412	2	C72548	probable dihydroli
913	25	61.0	412	2	T05703	calreticulin - bar
914	25	61.0	415	2	T05705	calreticulin - bar
915	25	61.0	417	2	S51961	FUN50 protein - ye
916	25	61.0	417	2	B90758	paraquat-inducible
917	25	61.0	417	2	H85621	paraquat-inducible
918	25	61.0	417	2	E64835	paraquat-inducible
919	25	61.0	417	2	AB0626	probable inner mem
920	25	61.0	419	2	S71343	calreticulin precu
921	25	61.0	420	2	T34750	serine hydroxymeth
922	25	61.0	421	2	S58170	calreticulin precu
923	25	61.0	422	2	A71147	hypothetical prote

924	25	61.0	426	2	H69660	multiple sugar-bin
925	25	61.0	429	2	D64499	glycine hydroxymet
926	25	61.0	430	2	T32055	hypothetical prote
927	25	61.0	430	2	T37549	hypothetical prote
928	25	61.0	431	2	B81254	probable transmemb
929	25	61.0	434	2	T20400	hypothetical prote
930	25	61.0	435	2	E84707	probable protein k
931	25	61.0	438	2	T22060	hypothetical prote
932	25	61.0	441	2	G98126	histidine protein
933	25	61.0	443	2	C88427	protein R07E5.6 [i
934	25	61.0	443	2	T43964	hypothetical prote
935	25	61.0	443	2	A89531	protein H28G03.6 [
936	25	61.0	445	2	E82296	conserved hypothet
937	25	61.0	446	2	E81367	probable transmemb
938	25	61.0	446	2	S59646	clathrin coat asse
939	25	61.0	447	2	G84687	probable disease r
940	25	61.0	448	2	B69965	D-serine dehydrata
941	25	61.0	448	2	B55548	crtN protein - Sta
942	25	61.0	448	2	C64437	probable urease -
943	25	61.0	448	2	G95038	IS1380-Spn1, trans
944	25	61.0	448	2	D95040	IS1380-Spn1, trans
945	25	61.0	448	2	D95057	IS1380-Spn1, trans
946	25	61.0	448	2	F95082	IS1380-Spn1, trans
947	25	61.0	448	2	B95155	IS1380-Spn1, trans
948	25	61.0	448	2	A95157	IS1380-Spn1, trans
949	25	61.0	448	2	B95165	IS1380-Spn1, trans
950	25	61.0	448	2	F95167	IS1380-Spn1, trans
951	25	61.0	448	2	A95175	IS1380-Spn1, trans
952	25	61.0	448	2	F95185	IS1380-Spn1, trans
953	25	61.0	448	2	G95254	IS1380-Spn1, trans
954	25	61.0	450	2	E89774	hypothetical prote
955	25	61.0	450	2	F95360	probable transmemb
956	25	61.0	450	2	S75725	hypothetical prote
957	25	61.0	453	2	B70316	DAPA aminotransfer
958	25	61.0	456	2	H75104	phosphomannomutase
959	25	61.0	458	2	S73658	MG096 homolog P02_
960	25	61.0	459	2	S76122	hypothetical prote
961	25	61.0	461	2	S68137	NADH2 dehydrogenas
962	25	61.0	461	2	T24012	hypothetical prote
963	25	61.0	462	2	H82160	conserved hypothet
964	25	61.0	464	2	C64462	adenosylmethionine
965	25	61.0	464	2	E90530	hypothetical prote
966	25	61.0	465	2	T09090	glucose-6-phosphat
967	25	61.0	466	2	AF0172	asparagine-tRNA li
968	25	61.0	467	2	T27108	hypothetical prote
969	25	61.0	469	2	T40339	ferredoxin-NADP re
970	25	61.0	470	1	RKMWLX	ribulose-bisphosph
971	25	61.0	472	1	RKYCL	ribulose-bisphosph
972	25	61.0	472	2	E70312	conserved hypothet
973	25	61.0	473	1	WMBE51	UL10 protein - hum
974	25	61.0	473	2	H83676	pyruvate dehydroge
975	25	61.0	473	2	C84979	hypothetical prote
976	25	61.0	477	2	T29592	hypothetical prote
977	25	61.0	478	1	RKNULT	ribulose-bisphosph
978	25	61.0	478	1	RKNULM	ribulose-bisphosph
979	25	61.0	478	2	F89651	protein T04F8.2 [i
980	25	61.0	479	2	D86182	protein F13M7.11 [

981	25	61.0	480	2	B64308	hypothetical prote
982	25	61.0	483	2	G84113	hypothetical prote
983	25	61.0	484	2	S23537	hypothetical prote
984	25	61.0	485	2	T10792	amidophosphoribosy
985	25	61.0	490	2	S25167	H+-exporting ATPas
986	25	61.0	490	2	F86841	iron-binding oxida
987	25	61.0	491	2	T06798	probable starch sy
988	25	61.0	491	2	T34226	hypothetical prote
989	25	61.0	494	2	S18395	H+-exporting ATPas
990	25	61.0	494	2	S24387	H+-exporting ATPas
991	25	61.0	495	2	B84200	adenylosuccinate l
992	25	61.0	496	2	T20926	hypothetical prote
993	25	61.0	497	1	S20174	protein kinase MEK
994	25	61.0	497	2	S60161	transcription fact
995	25	61.0	497	2	S43609	rofA protein - Str
996	25	61.0	498	2	AI1140	hypothetical secre
997	25	61.0	498	2	G96938	sensory transducti
998	25	61.0	499	2	JH0313	potassium channel
999	25	61.0	499	2	AD1499	hypothetical secre
1000	25	61.0	500	2	T14363	probable H+-export

ALIGNMENTS

RESULT 1
S23094
beta-amyloid protein precursor - rat
C;Species: Rattus norvegicus (Norway rat)
C;Date: 22-Nov-1993 #sequence_revision 10-Nov-1995 #text_change 03-May-1996
C;Accession: S23094
R;Kojima, S.; Omori, M.
FEBS Lett. 304, 57-60, 1992
A;Title: Two-way cleavage of beta-amyloid protein precursor by multicatalytic proteinase.
A;Reference number: S23094; MUID:92316198; PMID:1618299
A;Accession: S23094
A;Molecule type: protein
A;Residues: 1-33 <KOJ>
C;Superfamily: Alzheimer's disease amyloid beta protein; animal Kunitz-type proteinase inhibitor homology

Query Match 85.4%; Score 35; DB 2; Length 33;
Best Local Similarity 100.0%; Pred. No. 0.95;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 LVFFAED 7
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Db         22 LVFFAED 28
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RESULT 2
PN0512
beta-amyloid protein - guinea pig (fragment)
C;Species: Cavia porcellus (guinea pig)
C;Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 17-Mar-1999
C;Accession: PN0512

R;Shimohigashi, Y.; Matsumoto, H.; Takano, Y.; Saito, R.; Iwata, T.; Kamiya, H.; Ohno, M.
Biochem. Biophys. Res. Commun. 193, 624-630, 1993
A;Title: Receptor-mediated specific biological activity of a beta-amyloid protein fragment for NK-1 substance p receptors.
A;Reference number: PN0512; MUID:93290653; PMID:7685598
A;Accession: PN0512
A;Molecule type: protein
A;Residues: 1-42 <SHI>
C;Superfamily: Alzheimer's disease amyloid beta protein; animal Kunitz-type proteinase inhibitor homology
C;Keywords: alternative splicing; amyloid

  Query Match 85.4%; Score 35; DB 2; Length 42;
  Best Local Similarity 100.0%; Pred. No. 1.2;
  Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LVFFAED 7
      |||||||
Db 17 LVFFAED 23

RESULT 3
E60045
Alzheimer's disease amyloid beta/A4 protein precursor - sheep (fragment)
C;Species: Ovis sp. (sheep)
C;Date: 01-Dec-1992 #sequence_revision 01-Dec-1992 #text_change 28-Jul-1995
C;Accession: E60045
R;Johnstone, E.M.; Chaney, M.O.; Norris, F.H.; Pascual, R.; Little, S.P.
Brain Res. Mol. Brain Res. 10, 299-305, 1991
A;Title: Conservation of the sequence of the Alzheimer's disease amyloid peptide in dog, polar bear and five other mammals by cross-species polymerase chain reaction analysis.
A;Reference number: A60045; MUID:92017079; PMID:1656157
A;Accession: E60045
A;Molecule type: mRNA
A;Residues: 1-57 <JOH>
A;Cross-references: EMBL:X56130
C;Superfamily: Alzheimer's disease amyloid beta protein; animal Kunitz-type proteinase inhibitor homology
C;Keywords: alternative splicing; Alzheimer's disease; amyloid; brain

  Query Match 85.4%; Score 35; DB 2; Length 57;
  Best Local Similarity 100.0%; Pred. No. 1.7;
  Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LVFFAED 7
      |||||||
Db 22 LVFFAED 28

RESULT 4
F60045
Alzheimer's disease amyloid beta/A4 protein precursor - pig (fragment)
C;Species: Sus scrofa domestica (domestic pig)
C;Date: 01-Dec-1992 #sequence_revision 01-Dec-1992 #text_change 13-Aug-1999
C;Accession: F60045

R;Johnstone, E.M.; Chaney, M.O.; Norris, F.H.; Pascual, R.; Little, S.P.
Brain Res. Mol. Brain Res. 10, 299-305, 1991
A;Title: Conservation of the sequence of the Alzheimer's disease amyloid peptide in dog, polar bear and five other mammals by cross-species polymerase chain reaction analysis.
A;Reference number: A60045; MUID:92017079; PMID:1656157
A;Accession: F60045
A;Molecule type: mRNA
A;Residues: 1-57 <JOH>
A;Cross-references: EMBL:X56127; NID:g1895; PIDN:CAA39592.1; PID:g1896
C;Superfamily: Alzheimer's disease amyloid beta protein; animal Kunitz-type proteinase inhibitor homology
C;Keywords: alternative splicing; Alzheimer's disease; amyloid; brain

  Query Match   85.4%; Score 35; DB 2; Length 57;
  Best Local Similarity   100.0%; Pred. No. 1.7;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LVFFAED 7
              |||||||
Db   22 LVFFAED 28

RESULT 5
G60045
Alzheimer's disease amyloid beta/A4 protein precursor - guinea pig (fragment)
C;Species: Cavia porcellus (guinea pig)
C;Date: 01-Dec-1992 #sequence_revision 01-Dec-1992 #text_change 28-Jul-1995
C;Accession: G60045
R;Johnstone, E.M.; Chaney, M.O.; Norris, F.H.; Pascual, R.; Little, S.P.
Brain Res. Mol. Brain Res. 10, 299-305, 1991
A;Title: Conservation of the sequence of the Alzheimer's disease amyloid peptide in dog, polar bear and five other mammals by cross-species polymerase chain reaction analysis.
A;Reference number: A60045; MUID:92017079; PMID:1656157
A;Accession: G60045
A;Molecule type: mRNA
A;Residues: 1-57 <JOH>
A;Cross-references: EMBL:X56126
C;Superfamily: Alzheimer's disease amyloid beta protein; animal Kunitz-type proteinase inhibitor homology
C;Keywords: alternative splicing; Alzheimer's disease; amyloid; brain

  Query Match   85.4%; Score 35; DB 2; Length 57;
  Best Local Similarity   100.0%; Pred. No. 1.7;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LVFFAED 7
              |||||||
Db   22 LVFFAED 28

RESULT 6
D60045
Alzheimer's disease amyloid beta/A4 protein precursor - bovine (fragment)
C;Species: Bos primigenius taurus (cattle)
C;Date: 01-Dec-1992 #sequence_revision 01-Dec-1992 #text_change 28-Jul-1995

C;Accession: D60045
R;Johnstone, E.M.; Chaney, M.O.; Norris, F.H.; Pascual, R.; Little, S.P.
Brain Res. Mol. Brain Res. 10, 299-305, 1991
A;Title: Conservation of the sequence of the Alzheimer's disease amyloid peptide in dog, polar bear and five other mammals by cross-species polymerase chain reaction analysis.
A;Reference number: A60045; MUID:92017079; PMID:1656157
A;Accession: D60045
A;Molecule type: mRNA
A;Residues: 1-57 <JOH>
A;Cross-references: EMBL:X56124
C;Superfamily: Alzheimer's disease amyloid beta protein; animal Kunitz-type proteinase inhibitor homology
C;Keywords: alternative splicing; Alzheimer's disease; amyloid; brain

  Query Match   85.4%; Score 35; DB 2; Length 57;
  Best Local Similarity   100.0%; Pred. No. 1.7;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LVFFAED 7
              |||||||
Db   22 LVFFAED 28

RESULT 7
A60045
Alzheimer's disease amyloid beta/A4 protein precursor - dog (fragment)
C;Species: Canis lupus familiaris (dog)
C;Date: 01-Dec-1992 #sequence_revision 01-Dec-1992 #text_change 28-Jul-1995
C;Accession: A60045
R;Johnstone, E.M.; Chaney, M.O.; Norris, F.H.; Pascual, R.; Little, S.P.
Brain Res. Mol. Brain Res. 10, 299-305, 1991
A;Title: Conservation of the sequence of the Alzheimer's disease amyloid peptide in dog, polar bear and five other mammals by cross-species polymerase chain reaction analysis.
A;Reference number: A60045; MUID:92017079; PMID:1656157
A;Accession: A60045
A;Molecule type: mRNA
A;Residues: 1-57 <JOH>
A;Cross-references: EMBL:X56125
C;Superfamily: Alzheimer's disease amyloid beta protein; animal Kunitz-type proteinase inhibitor homology
C;Keywords: alternative splicing; Alzheimer's disease; amyloid; brain

  Query Match   85.4%; Score 35; DB 2; Length 57;
  Best Local Similarity   100.0%; Pred. No. 1.7;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LVFFAED 7
              |||||||
Db   22 LVFFAED 28

RESULT 8
B60045
Alzheimer's disease amyloid beta/A4 protein precursor - polar bear (fragment)
C;Species: Ursus maritimus (polar bear)

C;Date: 01-Dec-1992 #sequence_revision 01-Dec-1992 #text_change 13-Aug-1999
C;Accession: B60045
R;Johnstone, E.M.; Chaney, M.O.; Norris, F.H.; Pascual, R.; Little, S.P.
Brain Res. Mol. Brain Res. 10, 299-305, 1991
A;Title: Conservation of the sequence of the Alzheimer's disease amyloid peptide
in dog, polar bear and five other mammals by cross-species polymerase chain
reaction analysis.
A;Reference number: A60045; MUID:92017079; PMID:1656157
A;Accession: B60045
A;Molecule type: mRNA
A;Residues: 1-57 <JOH>
A;Cross-references: EMBL:X56128; NID:g2165; PIDN:CAA39593.1; PID:g2166
C;Superfamily: Alzheimer's disease amyloid beta protein; animal Kunitz-type
proteinase inhibitor homology
C;Keywords: alternative splicing; Alzheimer's disease; amyloid; brain

  Query Match   85.4%; Score 35; DB 2; Length 57;
  Best Local Similarity   100.0%; Pred. No. 1.7;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LVFFAED 7
              |||||||
Db   22 LVFFAED 28

RESULT 9
PQ0438
Alzheimer's disease amyloid A4 protein precursor - rabbit (fragment)
C;Species: Oryctolagus cuniculus (domestic rabbit)
C;Date: 30-Sep-1993 #sequence_revision 19-Oct-1995 #text_change 19-Oct-1995
C;Accession: PQ0438; C60045
R;Davidson, J.S.; West, R.L.; Kotikalapudi, P.; Maroun, L.E.
Biochem. Biophys. Res. Commun. 188, 905-911, 1992
A;Title: Sequence and methylation in the beta/A4 region of the rabbit amyloid
precursor protein gene.
A;Reference number: PQ0438; MUID:93075180; PMID:1445331
A;Accession: PQ0438
A;Molecule type: DNA
A;Residues: 1-82 <DAV>
A;Cross-references: GB:M83558; GB:M83657
R;Johnstone, E.M.; Chaney, M.O.; Norris, F.H.; Pascual, R.; Little, S.P.
Brain Res. Mol. Brain Res. 10, 299-305, 1991
A;Title: Conservation of the sequence of the Alzheimer's disease amyloid peptide
in dog, polar bear and five other mammals by cross-species polymerase chain
reaction analysis.
A;Reference number: A60045; MUID:92017079; PMID:1656157
A;Accession: C60045
A;Molecule type: mRNA
A;Residues: 12-68 <JOH>
A;Cross-references: EMBL:X56129
C;Superfamily: Alzheimer's disease amyloid beta protein; animal Kunitz-type
proteinase inhibitor homology
C;Keywords: alternative splicing; Alzheimer's disease; amyloid; Down's syndrome

  Query Match   85.4%; Score 35; DB 2; Length 82;
  Best Local Similarity   100.0%; Pred. No. 2.4;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

```
Qy          1 LVFFAED 7
              |||||||
Db         33 LVFFAED 39
```

RESULT 10
A49795
Alzheimer's disease amyloid beta protein precursor - crab-eating macaque
C;Species: Macaca fascicularis (crab-eating macaque)
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
C;Accession: A49795
R;Podlisny, M.B.; Tolan, D.R.; Selkoe, D.J.
Am. J. Pathol. 138, 1423-1435, 1991
A;Title: Homology of the amyloid beta protein precursor in monkey and human supports a primate model for beta amyloidosis in Alzheimer's disease.
A;Reference number: A49795; MUID:91273117; PMID:1905108
A;Accession: A49795
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-695 <POD>
A;Cross-references: GB:M58727; NID:g342062; PIDN:AAA36829.1; PID:g342063
C;Superfamily: Alzheimer's disease amyloid beta protein; animal Kunitz-type proteinase inhibitor homology
C;Keywords: alternative splicing

  Query Match   85.4%; Score 35; DB 1; Length 695;
  Best Local Similarity   100.0%; Pred. No. 22;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

```
Qy          1 LVFFAED 7
              |||||||
Db        613 LVFFAED 619
```

RESULT 11
A27485
Alzheimer's disease amyloid beta/A4 protein homolog precursor - mouse
N;Alternate names: proteinase nexin II
C;Species: Mus musculus (house mouse)
C;Date: 31-Mar-1989 #sequence_revision 31-Mar-1989 #text_change 13-Aug-1999
C;Accession: A27485; S19727; I49485
R;Yamada, T.; Sasaki, H.; Furuya, H.; Miyata, T.; Goto, I.; Sakaki, Y.
Biochem. Biophys. Res. Commun. 149, 665-671, 1987
A;Title: Complementary DNA for the mouse homolog of the human amyloid beta protein precursor.
A;Reference number: A27485; MUID:88106489; PMID:3322280
A;Accession: A27485
A;Molecule type: mRNA
A;Residues: 1-695 <YAM>
A;Cross-references: GB:M18373; NID:g191568; PIDN:AAA37139.1; PID:g309085
A;Experimental source: brain
R;de Strooper, B.; van Leuven, F.; van den Berghe, H.
Biochim. Biophys. Acta 1129, 141-143, 1991
A;Title: The amyloid beta protein precursor or proteinase nexin II from mouse is closer related to its human homolog than previously reported.
A;Reference number: S19727; MUID:92096458; PMID:1756177

A;Accession: S19727
A;Molecule type: mRNA
A;Residues: 1-210,'G',212-220,'S',222-396,'A',398-402,'T',404-448,'A',450-695
<STR>
A;Cross-references: EMBL:X59379
R;Izumi, R.; Yamada, T.; Yoshikai, S.; Sasaki, H.; Hattori, M.; Sakaki, Y.
Gene 112, 189-195, 1992
A;Title: Positive and negative regulatory elements for the expression of the
Alzheimer's disease amyloid precursor-encoding gene in mouse.
A;Reference number: I49485; MUID:92209998; PMID:1555768
A;Accession: I49485
A;Status: translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-19 <RES>
A;Cross-references: GB:D10603; NID:g220328; PIDN:BAA01456.1; PID:g220329
C;Genetics:
A;Map position: 16C3
C;Superfamily: Alzheimer's disease amyloid beta protein; animal Kunitz-type
proteinase inhibitor homology
C;Keywords: alternative splicing; amyloid; transmembrane protein

  Query Match   85.4%; Score 35; DB 2; Length 695;
  Best Local Similarity   100.0%; Pred. No. 22;
  Matches   7; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LVFFAED 7
              |||||||
Db   613 LVFFAED 619

RESULT 12
S00550
Alzheimer's disease amyloid beta protein precursor - rat
N;Alternate names: beta-A4 amyloid protein
C;Species: Rattus norvegicus (Norway rat)
C;Date: 30-Jun-1989 #sequence_revision 30-Jun-1989 #text_change 13-Aug-1999
C;Accession: S00550; A41245; A39820; S46251
R;Shivers, B.D.; Hilbich, C.; Multhaup, G.; Salbaum, M.; Beyreuther, K.;
Seeburg, P.H.
EMBO J. 7, 1365-1370, 1988
A;Title: Alzheimer's disease amyloidogenic glycoprotein: expression pattern in
rat brain suggests a role in cell contact.
A;Reference number: S00550; MUID:88312583; PMID:2900758
A;Accession: S00550
A;Molecule type: mRNA
A;Residues: 1-695 <SHI>
A;Cross-references: EMBL:X07648; NID:g55616; PIDN:CAA30488.1; PID:g55617
R;Schubert, D.; Schroeder, R.; LaCorbiere, M.; Saitoh, T.; Cole, G.
Science 241, 223-226, 1988
A;Title: Amyloid beta protein precursor is possibly a heparan sulfate
proteoglycan core protein.
A;Reference number: A41245; MUID:88264430; PMID:2968652
A;Accession: A41245
A;Molecule type: protein
A;Residues: 18-37,'X',39-40,'X',42-44 <SCH>
A;Note: evidence for heparan sulfate attachment
R;Hesse, L.; Beher, D.; Masters, C.L.; Multhaup, G.

FEBS Lett. 349, 109-116, 1994
A;Title: The beta-A4 amyloid precursor protein binding to copper.
A;Reference number: S46251; MUID:94320627; PMID:7913895
A;Contents: annotation; copper binding sites
A;Note: rat peptides were isolated but not sequenced
R;Potempska, A.; Styles, J.; Mehta, P.; Kim, K.S.; Miller, D.L.
J. Biol. Chem. 266, 8464-8469, 1991
A;Title: Purification and tissue level of the beta-amyloid peptide precursor of rat brain.
A;Reference number: A39820; MUID:91217087; PMID:1673681
A;Accession: A39820
A;Status: preliminary
A;Molecule type: protein
A;Residues: 18-32 <POT>
A;Experimental source: brain
C;Comment: Deposition of amyloid protein as neurofibrillary tangles and/or plaques is characteristic of both Alzheimer's disease and Down's syndrome.
C;Superfamily: Alzheimer's disease amyloid beta protein; animal Kunitz-type proteinase inhibitor homology
C;Keywords: alternative splicing; amyloid; glycoprotein; transmembrane protein
F;625-648/Domain: transmembrane #status predicted <TMM>

  Query Match 85.4%; Score 35; DB 2; Length 695;
  Best Local Similarity 100.0%; Pred. No. 22;
  Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LVFFAED 7
      |||||||
Db 613 LVFFAED 619

RESULT 13
QRHUA4
Alzheimer's disease amyloid beta protein precursor [validated] - human
N;Alternate names: Alzheimer's disease amyloid A4 protein; coagulation factor XIa inhibitor; proteinase nexin II (PN-II)
N;Contains: amyloid beta protein long, plaque form; amyloid beta protein short, vascular form; amyloid protein precursor splice form APP(695); amyloid protein precursor splice form APP(751); amyloid protein precursor splice form APP(770)
C;Species: Homo sapiens (man)
C;Date: 30-Jun-1987 #sequence_revision 28-Jul-1995 #text_change 15-Sep-2000
C;Accession: S02260; S05194; A32277; A33260; A35486; I39452; I39451; I39453; I59562; A44017; B44017; A03134; A29030; A47584; A47585; S02638; S00707; S00925; A38949; A30320; B30320; C30320; A31087; A24668; A28583; A29302; A60805; JL0038; S06121; A60355; A59011; A38384; S29076; S38252; S32539; S48148; S48692; S51186; S51185; S51184; S51183; A54238; I58075; I52250; S09010; S10737; S24127; S43644
R;Lemaire, H.G.; Salbaum, J.M.; Multhaup, G.; Kang, J.; Bayney, R.M.; Unterbeck, A.; Beyreuther, K.; Mueller-Hill, B.
Nucleic Acids Res. 17, 517-522, 1989
A;Title: The PreA4(695) precursor protein of Alzheimer's disease A4 amyloid is encoded by 16 exons.
A;Reference number: S02260; MUID:89128427; PMID:2783775
A;Accession: S02260
A;Molecule type: DNA
A;Residues: 1-288,'V',365-770 <LEM1>
A;Cross-references: EMBL:X13466
A;Note: alternative splice form APP(695)

R;Lemaire, H.G.
submitted to the EMBL Data Library, November 1988
A;Reference number: S05194
A;Accession: S05194
A;Molecule type: DNA
A;Residues: 1-14,'VW',17-288,'V',365-770 <LEM2>
A;Cross-references: EMBL:X13466; NID:g35598; PIDN:CAA31830.1; PID:g871360
A;Note: alternative splice form APP(695)
R;La Fauci, G.; Lahiri, D.K.; Salton, S.R.J.; Robakis, N.K.
Biochem. Biophys. Res. Commun. 159, 297-304, 1989
A;Title: Characterization of the 5'-end region and the first two exons of the beta-protein precursor gene.
A;Reference number: A32277; MUID:89165870; PMID:2538123
A;Accession: A32277
A;Molecule type: DNA
A;Residues: 1-75 <LAF>
A;Cross-references: GB:M24546; GB:M24547; NID:g341202; PIDN:AAC13654.1; PID:g516074
R;Johnstone, E.M.; Chaney, M.O.; Moore, R.E.; Ward, K.E.; Norris, F.H.; Little, S.P.
Biochem. Biophys. Res. Commun. 163, 1248-1255, 1989
A;Title: Alzheimer's disease amyloid peptide is encoded by two exons and shows similarity to soybean trypsin inhibitor.
A;Reference number: A33260; MUID:89392030; PMID:2675837
A;Accession: A33260
A;Molecule type: DNA
A;Residues: 656-737 <JOH>
A;Cross-references: GB:M29270; NID:g178863; PIDN:AAA51768.1; PID:g178865
R;Prelli, F.; Levy, E.; van Duinen, S.G.; Bots, G.T.A.M.; Luyendijk, W.; Frangione, B.
Biochem. Biophys. Res. Commun. 170, 301-307, 1990
A;Title: Expression of a normal and variant Alzheimer's beta-protein gene in amyloid of hereditary cerebral hemorrhage, Dutch type: DNA and protein diagnostic assays.
A;Reference number: A35486; MUID:90321244; PMID:2196878
A;Accession: A35486
A;Molecule type: DNA
A;Residues: 672-710 <PRE1>
A;Note: 693-Gln was found in DNA isolated from HCHWA-D patients
R;Yoshikai, S.I.; Sasaki, H.; Doh-ura, K.; Furuya, H.; Sakaki, Y.
Gene 87, 257-263, 1990
A;Title: Genomic organization of the human amyloid beta-protein precursor gene.
A;Reference number: I39451; MUID:90236318; PMID:2110105
A;Accession: I39452
A;Status: nucleic acid sequence not shown; translation not shown; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-770 <YOS1>
A;Cross-references: GB:M33112; NID:g178613; PIDN:AAB59502.1; PID:g178616
A;Accession: I39451
A;Status: nucleic acid sequence not shown; translation not shown; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-530,'QWLMPVIPAFWEAKVGR' <YOS2>
A;Cross-references: GB:M34875; NID:g178608; PIDN:AAB59501.1; PID:g178615
R;Yoshikai, S.I.; Sasaki, H.; Doh-ura, K.; Furuya, H.; Sakaki, Y.
Gene 102, 291-292, 1991

A;Reference number: A59020; MUID:91340168; PMID:1908403
A;Contents: annotation; erratum
A;Note: revised physical map for reference I39451
R;Levy, E.; Carman, M.D.; Fernandez-Madrid, I.J.; Power, M.D.; Lieberburg, I.; van Duinen, S.G.; Bots, G.T.; Luyendijk, W.; Frangione, B.
Science 248, 1124-1126, 1990
A;Title: Mutation of the Alzheimer's disease amyloid gene in hereditary cerebral hemorrhage, Dutch type.
A;Reference number: I39453; MUID:90260663; PMID:2111584
A;Accession: I39453
A;Status: translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 656-737 <LEV>
A;Cross-references: GB:M37896; NID:g178618; PIDN:AAA51727.1; PID:g178620
A;Note: a mutation with 693-Gln is presented
R;Murrell, J.; Farlow, M.; Ghetti, B.; Benson, M.D.
Science 254, 97-99, 1991
A;Title: A mutation in the amyloid precursor protein associated with hereditary Alzheimer's disease.
A;Reference number: I59562; MUID:92022553; PMID:1925564
A;Accession: I59562
A;Status: translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 689-716,'F',718-737 <MUR>
A;Cross-references: GB:S57665; NID:g236720; PIDN:AAB19991.1; PID:g236721
R;Kamino, K.; Orr, H.T.; Payami, H.; Wijsman, E.M.; Alonso, M.E.; Pulst, S.M.; Anderson, L.; O'dahl, S.; Nemens, E.; White, J.A.; Sadovnick, A.D.; Ball, M.J.; Kaye, J.; Warren, A.; McInnis, M.; Antonarakis, S.E.; Korenberg, J.R.; Sharma, V.; Kukull, W.; Larson, E.; Heston, L.L.; Martin, G.M.; Bird, T.D.; Schellenberg, G.D.
Am. J. Hum. Genet. 51, 998-1014, 1992
A;Title: Linkage and mutational analysis of familial Alzheimer disease kindreds for the APP gene region.
A;Reference number: A44017; MUID:93035397; PMID:1415269
A;Accession: A44017
A;Molecule type: DNA
A;Residues: 687-692,'G',694-718 <KAM1>
A;Cross-references: GB:S45135; NID:g257377; PIDN:AAB23645.1; PID:g257378
A;Experimental source: familial Alzheimer disease family SB
A;Note: sequence extracted from NCBI backbone (NCBIP:115374)
A;Accession: B44017
A;Molecule type: DNA
A;Residues: 687-718 <KAM2>
A;Cross-references: GB:S45136; NID:g257379; PIDN:AAB23646.1; PID:g257380
A;Experimental source: familial Alzheimer disease family LIT
A;Note: sequence extracted from NCBI backbone (NCBIP:115376)
A;Note: this sequence has a silent mutation
R;Kang, J.; Lemaire, H.G.; Unterbeck, A.; Salbaum, J.M.; Masters, C.L.; Grzeschik, K.H.; Multhaup, G.; Beyreuther, K.; Muller-Hill, B.
Nature 325, 733-736, 1987
A;Title: The precursor of Alzheimer's disease amyloid A4 protein resembles a cell-surface receptor.
A;Reference number: A03134; MUID:87144572; PMID:2881207
A;Accession: A03134
A;Molecule type: mRNA
A;Residues: 1-288,'V',365-770 <KAN>
A;Cross-references: GB:Y00264; NID:g28525; PIDN:CAA68374.1; PID:g28526

A;Note: alternative splice form APP(695)
R;Robakis, N.K.; Ramakrishna, N.; Wolfe, G.; Wisniewski, H.M.
Proc. Natl. Acad. Sci. U.S.A. 84, 4190-4194, 1987
A;Title: Molecular cloning and characterization of a cDNA encoding the cerebrovascular and the neuritic plaque amyloid peptides.
A;Reference number: A29030; MUID:87231971; PMID:3035574
A;Accession: A29030
A;Molecule type: mRNA
A;Residues: 284-288,'V',365-646,'E',648-770 <ROB>
A;Cross-references: GB:M16765; NID:g178539; PIDN:AAA51722.1; PID:g178540
A;Note: the authors translated the codon GAG for residue 647 as Asp
R;Goldgaber, D.; Lerman, M.I.; McBride, O.W.; Saffiotti, U.; Gajdusek, D.C.
Science 235, 877-880, 1987
A;Title: Characterization and chromosomal localization of a cDNA encoding brain amyloid of Alzheimer's disease.
A;Reference number: A47584; MUID:87120328; PMID:3810169
A;Accession: A47584
A;Molecule type: mRNA
A;Residues: 674-756,'S',758-770 <GOL>
A;Cross-references: GB:M15533; NID:g178706; PIDN:AAA35540.1; PID:g178707
A;Experimental source: brain
R;Tanzi, R.E.; Gusella, J.F.; Watkins, P.C.; Bruns, G.A.P.; St George-Hyslop, P.; Van Keuren, M.L.; Patterson, D.; Pagan, S.; Kurnit, D.M.; Neve, R.L.
Science 235, 880-884, 1987
A;Title: Amyloid beta protein gene: cDNA, mRNA distribution, and genetic linkage near the Alzheimer locus.
A;Reference number: A47585; MUID:87120329; PMID:2949367
A;Accession: A47585
A;Molecule type: mRNA
A;Residues: 674-703 <TAN1>
A;Cross-references: GB:M15532; NID:g177957; PIDN:AAA51564.1; PID:g177958
R;Dyrks, T.; Weidemann, A.; Multhaup, G.; Salbaum, J.M.; Lemaire, H.G.; Kang, J.; Mueller-Hill, B.; Masters, C.L.; Beyreuther, K.
EMBO J. 7, 949-957, 1988
A;Title: Identification, transmembrane orientation and biogenesis of the amyloid A4 precursor of Alzheimer's disease.
A;Reference number: S02638; MUID:88296437; PMID:2900137
A;Accession: S02638
A;Molecule type: mRNA
A;Residues: 672-678 <DYR>
R;Tanzi, R.E.; McClatchey, A.I.; Lamperti, E.D.; Villa-Komaroff, L.; Gusella, J.F.; Neve, R.L.
Nature 331, 528-530, 1988
A;Title: Protease inhibitor domain encoded by an amyloid protein precursor mRNA associated with Alzheimer's disease.
A;Reference number: S00707; MUID:88122640; PMID:2893290
A;Accession: S00707
A;Molecule type: mRNA
A;Residues: 286-344,'I',365-366 <TAN2>
A;Cross-references: EMBL:X06982; NID:g28817; PIDN:CAA30042.1; PID:g929612
A;Experimental source: promyelocytic leukemia cell line HL60
A;Note: alternative splice form APP(751)
R;Ponte, P.; Gonzalez-DeWhitt, P.; Schilling, J.; Miller, J.; Hsu, D.; Greenberg, B.; Davis, K.; Wallace, W.; Lieberburg, I.; Fuller, F.; Cordell, B.
Nature 331, 525-527, 1988
A;Title: A new A4 amyloid mRNA contains a domain homologous to serine proteinase inhibitors.

A;Reference number: S00925; MUID:88122639; PMID:2893289
A;Accession: S00925
A;Molecule type: mRNA
A;Residues: 1-344,'I',365-770 <PO2>
A;Cross-references: GB:X06989; EMBL:Y00297; NID:g28720; PIDN:CAA30050.1;
PID:g28721
A;Note: alternative splice form APP(751)
R;Kitaguchi, N.; Takahashi, Y.; Tokushima, Y.; Shiojiri, S.; Ito, H.
Nature 331, 530-532, 1988
A;Title: Novel precursor of Alzheimer's disease amyloid protein shows protease
inhibitory activity.
A;Reference number: A38949; MUID:88122641; PMID:2893291
A;Accession: A38949
A;Molecule type: mRNA
A;Residues: 287-367 <KIT>
A;Cross-references: GB:X06981; NID:g28816; PIDN:CAA30041.1; PID:g929611
A;Experimental source: glioblastoma cell line
A;Note: alternative splice form APP(770)
R;Vitek, M.P.; Rasool, C.G.; de Sauvage, F.; Vitek, S.M.; Bartus, R.T.; Beer,
B.; Ashton, R.A.; Macq, A.F.; Maloteaux, J.M.; Blume, A.J.; Octave, J.N.
Brain Res. Mol. Brain Res. 4, 121-131, 1988
A;Title: Absence of mutation in the beta-amyloid cDNAs cloned from the brains of
three patients with sporadic Alzheimer's disease.
A;Reference number: A30320
A;Accession: A30320
A;Status: not compared with conceptual translation
A;Molecule type: mRNA
A;Residues: 284-288,'V',365-770 <VIT1>
A;Accession: B30320
A;Status: not compared with conceptual translation
A;Molecule type: mRNA
A;Residues: 122-288,'V',365-770 <VIT2>
A;Accession: C30320
A;Status: not compared with conceptual translation
A;Molecule type: mRNA
A;Residues: 606-770 <VIT3>
R;Zain, S.B.; Salim, M.; Chou, W.G.; Sajdel-Sulkowska, E.M.; Majocha, R.E.;
Marotta, C.A.
Proc. Natl. Acad. Sci. U.S.A. 85, 929-933, 1988
A;Title: Molecular cloning of amyloid cDNA derived from mRNA of the Alzheimer
disease brain: coding and noncoding regions of the fetal precursor mRNA are
expressed in the cortex.
A;Reference number: A31087; MUID:88124954; PMID:2893379
A;Accession: A31087
A;Molecule type: mRNA
A;Residues: 507-770 <ZAI>
A;Cross-references: GB:M18734; NID:g178572; PIDN:AAA51726.1; PID:g178573
A;Note: the authors translated the codon GAA for residue 599 as Gly, ACC for
residue 603 as Val, GTG for residue 604 as Glu, GAG for residue 605 as Leu, CTT
for residue 607 as Pro, CCC for residue 608 as Val, GTG for residue 609 as Asn,
AAT for residue 610 as Gly, and GGT for residue 655 as Ser
A;Note: the cited Genbank accession number, J03594, is not in release 101.0
R;Masters, C.L.; Multhaup, G.; Simms, G.; Pottgiesser, J.; Martins, R.N.;
Beyreuther, K.

  Query Match 85.4%; Score 35; DB 1; Length 770;
  Best Local Similarity 100.0%; Pred. No. 24;

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  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LVFFAED 7
              |||||||
Db        688 LVFFAED 694
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RESULT 14
T24151
hypothetical protein R10H10.1 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999
C;Accession: T24151
R;Bardill, S.
submitted to the EMBL Data Library, April 1996
A;Reference number: Z19846
A;Accession: T24151
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-222 <WIL>
A;Cross-references: EMBL:Z70686; PIDN:CAA94609.1; GSPDB:GN00022; CESP:R10H10.1
A;Experimental source: clone R10H10
C;Genetics:
A;Gene: CESP:R10H10.1
A;Map position: 4
A;Introns: 13/1; 34/1; 60/2

```
  Query Match             80.5%;  Score 33;  DB 2;  Length 222;
  Best Local Similarity   85.7%;  Pred. No. 18;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 VFFAEDF 8
              ||| |||
Db         71 VFFGEDF 77
```

RESULT 15
D69078
probable phosphomannomutase 2 - Methanobacterium thermoautotrophicum (strain Delta H)
C;Species: Methanobacterium thermoautotrophicum
C;Date: 05-Dec-1997 #sequence_revision 05-Dec-1997 #text_change 17-Mar-2000
C;Accession: D69078
R;Smith, D.R.; Doucette-Stamm, L.A.; Deloughery, C.; Lee, H.; Dubois, J.; Aldredge, T.; Bashirzadeh, R.; Blakely, D.; Cook, R.; Gilbert, K.; Harrison, D.; Hoang, L.; Keagle, P.; Lumm, W.; Pothier, B.; Qiu, D.; Spadafora, R.; Vicaire, R.; Wang, Y.; Wierzbowski, J.; Gibson, R.; Jiwani, N.; Caruso, A.; Bush, D.; Safer, H.; Patwell, D.; Prabhakar, S.; McDougall, S.; Shimer, G.; Goyal, A.; Pietrokovski, S.; Church, G.M.; Daniels, C.J.; Mao, J.; Rice, P.; Noelling, J.; Reeve, J.N.
J. Bacteriol. 179, 7135-7155, 1997
A;Title: Complete genome sequence of Methanobacterium thermoautotrophicum Delta H: functional analysis and comparative genomics.
A;Reference number: A69000; MUID:98037514; PMID:9371463
A;Accession: D69078
A;Status: preliminary; nucleic acid sequence not shown; translation not shown
A;Molecule type: DNA

A;Residues: 1-455 <MTH>
A;Cross-references: GB:AE000918; GB:AE000666; NID:g2622699; PIDN:AAB86057.1;
PID:g2622707
A;Experimental source: strain Delta H
C;Genetics:
A;Gene: MTH1584
C;Superfamily: phosphomannomutase

  Query Match   80.5%; Score 33; DB 2; Length 455;
  Best Local Similarity   71.4%; Pred. No. 38;
  Matches   5; Conservative   2; Mismatches   0; Indels   0; Gaps   0;

Qy   2 VFFAEDF 8
              :||:|||
Db   124 IFFSEDF 130

RESULT 16
T27908
hypothetical protein ZK550.2 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999
C;Accession: T27908
R;Basham, V.
submitted to the EMBL Data Library, November 1996
A;Reference number: Z20438
A;Accession: T27908
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-502 <WIL>
A;Cross-references: EMBL:Z82287; PIDN:CAB05312.1; GSPDB:GN00022; CESP:ZK550.2
A;Experimental source: clone ZK550
C;Genetics:
A;Gene: CESP:ZK550.2
A;Map position: 4
A;Introns: 23/2; 88/3; 187/3; 247/1; 281/2; 328/2; 364/1; 446/2

  Query Match   80.5%; Score 33; DB 2; Length 502;
  Best Local Similarity   75.0%; Pred. No. 42;
  Matches   6; Conservative   1; Mismatches   1; Indels   0; Gaps   0;

Qy   1 LVFFAEDF 8
              |||| ||:
Db   227 LVFFQEDY 234

RESULT 17
B89868
conserved hypothetical protein SA0860 [imported] - Staphylococcus aureus (strain
N315)
C;Species: Staphylococcus aureus
C;Date: 10-May-2001 #sequence_revision 10-May-2001 #text_change 22-Oct-2001
C;Accession: B89868
R;Kuroda, M.; Ohta, T.; Uchiyama, I.; Baba, T.; Yuzawa, H.; Kobayashi, I.; Cui,
L.; Oguchi, A.; Aoki, K.; Nagai, Y.; Lian, J.; Ito, T.; Kanamori, M.; Matsumaru,
H.; Maruyama, A.; Murakami, H.; Hosoyama, A.; Mizutani-Ui, Y.; Kobayashi, N.;
Sawano, T.; Inoue, R.; Kaito, C.; Sekimizu, K.; Hirakawa, H.; Kuhara, S.; Goto,

S.; Yabuzaki, J.; Kanehisa, M.; Yamashita, A.; Oshima, K.; Furuya, K.; Yoshino, C.; Shiba, T.; Hattori, M.; Ogasawara, N.; Hayashi, H.; Hiramatsu, K.
Lancet 357, 1225-1240, 2001
A;Title: Whole genome sequencing of meticillin-resistant Stapylococcus aureus.
A;Reference number: A89758; MUID:21311952; PMID:11418146
A;Accession: B89868
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-261 <KUR>
A;Cross-references: GB:BA000018; PID:g13700805; PIDN:BAB42101.1; GSPDB:GN00149
A;Experimental source: strain N315
C;Genetics:
A;Gene: SA0860

  Query Match 78.0%; Score 32; DB 2; Length 261;
  Best Local Similarity 85.7%; Pred. No. 34;
  Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LVFFAED 7
      ||||:||
Db 158 LVFFSED 164

RESULT 18
T44331
hypothetical protein wblD [imported] - Vibrio cholerae
C;Species: Vibrio cholerae
C;Date: 21-Jan-2000 #sequence_revision 21-Jan-2000 #text_change 21-Jul-2000
C;Accession: T44331
R;Yamasaki, S.; Shimizu, T.; Hoshino, K.; Ho, S.T.; Shimada, T.; Nair, G.B.; Takeda, Y.
Gene 237, 321-332, 1999
A;Title: The genes responsible for O-antigen synthesis of Vibrio cholerae O139 are closely related to those of Vibrio cholerae O22.
A;Reference number: Z22749; MUID:99453293; PMID:10521656
A;Accession: T44331
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-398 <YAM>
A;Cross-references: EMBL:AB012957; NID:g4115688; PIDN:BAA33635.1; PID:g3721685
A;Experimental source: strain O22
C;Genetics:
A;Note: wblD

  Query Match 78.0%; Score 32; DB 2; Length 398;
  Best Local Similarity 85.7%; Pred. No. 53;
  Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 VFFAEDF 8
      |||| ||
Db 264 VFFARDF 270

RESULT 19
T29939
hypothetical protein T20D4.15 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans

C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 20-Jun-2000
C;Accession: T29939
R;Minx, P.; Graves, T.
submitted to the EMBL Data Library, November 1996
A;Description: The sequence of C. elegans cosmid T20D4.
A;Reference number: Z20712
A;Accession: T29939
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-150 <MIN>
A;Cross-references: EMBL:U80029; PIDN:AAB37582.1; GSPDB:GN00023; CESP:T20D4.15
A;Experimental source: strain Bristol N2; clone T20D4
C;Genetics:
A;Gene: CESP:T20D4.15
A;Map position: 5
A;Introns: 135/3
C;Superfamily: Caenorhabditis elegans hypothetical protein C03G6.4

  Query Match   75.6%; Score 31; DB 2; Length 150;
  Best Local Similarity   62.5%; Pred. No. 32;
  Matches   5; Conservative   3; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LVFFAEDF 8
              ||:||::|
Db   60 LVYFADEF 67

RESULT 20
T35807
hypothetical protein SC8D9.03 SC8D9.03 - Streptomyces coelicolor
C;Species: Streptomyces coelicolor
C;Date: 05-Nov-1999 #sequence_revision 05-Nov-1999 #text_change 21-Jan-2000
C;Accession: T35807
R;Murphy, L.; Harris, D.; Bentley, S.D.; Parkhill, J.; Barrell, B.G.;
Rajandream, M.A.
submitted to the EMBL Data Library, February 1999
A;Reference number: Z21589
A;Accession: T35807
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-182 <MUR>
A;Cross-references: EMBL:AL035569; PIDN:CAB37567.1; GSPDB:GN00070;
SCOEDB:SC8D9.03
A;Experimental source: strain A3(2)
C;Genetics:
A;Gene: SCOEDB:SC8D9.03
C;Superfamily: yeast conserved hypothetical protein YJL055w

  Query Match   75.6%; Score 31; DB 2; Length 182;
  Best Local Similarity   85.7%; Pred. No. 39;
  Matches   6; Conservative   1; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LVFFAED 7
              ||||||:
Db   161 LVFFAEE 167

RESULT 21
G71483
hypothetical protein CT691 - Chlamydia trachomatis (serotype D, strain UW3/Cx)
C;Species: Chlamydia trachomatis
C;Date: 13-Sep-1998 #sequence_revision 13-Sep-1998 #text_change 17-May-2002
C;Accession: G71483
R;Stephens, R.S.; Kalman, S.; Lammel, C.J.; Fan, J.; Marathe, R.; Aravind, L.; Mitchell, W.P.; Olinger, L.; Tatusov, R.L.; Zhao, Q.; Koonin, E.V.; Davis, R.W.
Science 282, 754-759, 1998
A;Title: Genome sequence of an obligate intracellular pathogen of humans: Chlamydia trachomatis.
A;Reference number: A71570; MUID:99000809; PMID:9784136
A;Accession: G71483
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-224 <ARN>
A;Cross-references: GB:AE001339; GB:AE001273; NID:g3329136; PIDN:AAC68286.1; PID:g3329144
A;Experimental source: serotype D, strain UW-3/Cx
C;Genetics:
A;Gene: CT691
C;Superfamily: hypothetical protein HI1603

  Query Match 75.6%; Score 31; DB 2; Length 224;
  Best Local Similarity 71.4%; Pred. No. 48;
  Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 VFFAEDF 8
      |||::||
Db 180 VFFSDDF 186

RESULT 22
AB1397
hypothetical protein lmo2578 [imported] - Listeria monocytogenes (strain EGD-e)
C;Species: Listeria monocytogenes
C;Date: 27-Nov-2001 #sequence_revision 27-Nov-2001 #text_change 27-Nov-2001
C;Accession: AB1397
R;Glaser, P.; Frangeul, L.; Buchrieser, C.; Amend, A.; Baquero, F.; Berche, P.; Bloecker, H.; Brandt, P.; Chakraborty, T.; Charbit, A.; Chetouani, F.; Couve, E.; de Daruvar, A.; Dehoux, P.; Domann, E.; Dominguez-Bernal, G.; Duchaud, E.; Durand, L.; Dussurget, O.; Entian, K.D.; Fsihi, H.; Garcia-Del Portillo, F.; Garrido, P.; Gautier, L.; Goebel, W.; Gomez-Lopez, N.; Hain, T.; Hauf, J.; Jackson, D.; Jones, L.M.; Karst, U.
Science 294, 849-852, 2001
A;Authors: Kreft, J.; Kuhn, M.; Kunst, F.; Kurapkat, G.; Madueno, E.; Maitournam, A.; Mata Vicente, J.; Ng, E.; Nordsiek, G.; Novella, S.; de Pablos, B.; Perez-Diaz, J.C.; Remmel, B.; Rose, M.; Rusniok, C.; Schlueter, T.; Simoes, N.; Tierrez, A.; Vazquez-Boland, J.A.; Voss, H.; Wehland, J.; Cossart, P.
A;Title: Comparative genomics of Listeria species.
A;Reference number: AB1077; MUID:21537279; PMID:11679669
A;Accession: AB1397
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-291 <GLA>
A;Cross-references: GB:NC_003210; PIDN:CAD00656.1; PID:g16412066; GSPDB:GN00177
A;Experimental source: strain EGD-e

C;Genetics:
A;Gene: lmo2578

  Query Match 75.6%; Score 31; DB 2; Length 291;
  Best Local Similarity 62.5%; Pred. No. 63;
  Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LVFFAEDF 8
      | :||||:
Db 145 LTYFAEDY 152

RESULT 23
S39679
transcription regulator homolog ywbI - Bacillus subtilis
N;Alternate names: protein ipa-24d
C;Species: Bacillus subtilis
C;Date: 07-Oct-1994 #sequence_revision 26-May-1995 #text_change 20-Jun-2000
C;Accession: S39679; G70051
R;Glaser, P.; Kunst, F.; Arnaud, M.; Coudart, M.P.; Gonzales, W.; Hullo, M.F.; Ionescu, M.; Lubochinsky, B.; Marcelino, L.; Moszer, I.; Presecan, E.; Santana, M.; Schneider, E.; Schweizer, J.; Vertes, A.; Rapoport, G.; Danchin, A.
Mol. Microbiol. 10, 371-384, 1993
A;Title: Bacillus subtilis genome project: cloning and sequencing of the 97 kb region from 325 degrees to 333 degrees.
A;Reference number: S39655; MUID:95020537; PMID:7934828
A;Accession: S39679
A;Status: preliminary; nucleic acid sequence not shown; translation not shown
A;Molecule type: DNA
A;Residues: 1-301 <GLA>
A;Cross-references: EMBL:X73124; NID:g413923; PIDN:CAA51580.1; PID:g413948
A;Note: the nucleotide sequence was submitted to the EMBL Data Library, June 1993
R;Kunst, F.; Ogasawara, N.; Moszer, I.; Albertini, A.M.; Alloni, G.; Azevedo, V.; Bertero, M.G.; Bessieres, P.; Bolotin, A.; Borchert, S.; Boriss, R.; Boursier, L.; Brans, A.; Braun, M.; Brignell, S.C.; Bron, S.; Brouillet, S.; Bruschi, C.V.; Caldwell, B.; Capuano, V.; Carter, N.M.; Choi, S.K.; Codani, J.J.; Connerton, I.F.; Cummings, N.J.; Daniel, R.A.; Denizot, F.; Devine, K.M.; Duesterhoeft, A.; Ehrlich, S.D.; Emmerson, P.T.; Entian, K.D.; Errington, J.; Fabret, C.; Ferrari, E.
Nature 390, 249-256, 1997
A;Authors: Foulger, D.; Fritz, C.; Fujita, M.; Fujita, Y.; Fuma, S.; Galizzi, A.; Galleron, N.; Ghim, S.Y.; Glaser, P.; Goffeau, A.; Golightly, E.J.; Grandi, G.; Guiseppi, G.; Guy, B.J.; Haga, K.; Haiech, J.; Harwood, C.R.; Henaut, A.; Hilbert, H.; Holsappel, S.; Hosono, S.; Hullo, M.F.; Itaya, M.; Jones, L.; Joris, B.; Karamata, D.; Kasahara, Y.; Klaerr-Blanchard, M.; Klein, C.; Kobayashi, Y.; Koetter, P.; Koningstein, G.; Krogh, S.; Kumano, M.; Kurita, K.; Lapidus, A.; Lardinois, S.
A;Authors: Lauber, J.; Lazarevic, V.; Lee, S.M.; Levine, A.; Liu, H.; Masuda, S.; Maueel, C.; Medigue, C.; Medina, N.; Mellado, R.P.; Mizuno, M.; Moestl, D.; Nakai, S.; Noback, M.; Noone, D.; O'Reilly, M.; Ogawa, K.; Ogiwara, A.; Oudega, B.; Park, S.H.; Parro, V.; Pohl, T.M.; Portetelle, D.; Porwolik, S.; Prescott, A.M.; Presecan, E.; Pujic, P.; Purnelle, B.; Rapoport, G.; Rey, M.; Reynolds, S.; Rieger, M.; Rivolta, C.; Rocha, E.; Roche, B.; Rose, M.; Sadaie, Y.; Sato, T.; Scanlon, E.
A;Authors: Schleich, S.; Schroeter, R.; Scoffone, F.; Sekiguchi, J.; Sekowska, A.; Seror, S.J.; Serror, P.; Shin, B.S.; Soldo, B.; Sorokin, A.; Tacconi, E.;

Takagi, T.; Takahashi, H.; Takemaru, K.; Takeuchi, M.; Tamakoshi, A.; Tanaka, T.; Terpstra, P.; Tognoni, A.; Tosato, V.; Uchiyama, S.; Vandenbol, M.; Vannier, F.; Vassarotti, A.; Viari, A.; Wambutt, R.; Wedler, E.; Wedler, H.; Weitzenegger, T.; Winters, P.; Wipat, A.; Yamamoto, H.; Yamane, K.; Yasumoto, K.; Yata, K.; Yoshida, K.
A;Authors: Yoshikawa, H.F.; Zumstein, E.; Yoshikawa, H.; Danchin, A.
A;Title: The complete genome sequence of the Gram-positive bacterium Bacillus subtilis.
A;Reference number: A69580; MUID:98044033; PMID:9384377
A;Accession: G70051
A;Status: preliminary; nucleic acid sequence not shown; translation not shown
A;Molecule type: DNA
A;Residues: 1-301 <KUN>
A;Cross-references: GB:Z99123; GB:AL009126; NID:g2636240; PIDN:CAB15857.1; PID:g2636366
A;Experimental source: strain 168
C;Genetics:
A;Gene: ywbI
C;Superfamily: Pseudomonas putida regulatory protein catR

  Query Match 75.6%; Score 31; DB 2; Length 301;
  Best Local Similarity 71.4%; Pred. No. 65;
  Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 VFFAEDF 8
      :|| |||
Db 192 IFFREDF 198

RESULT 24
F70327
conserved hypothetical protein aq_303 - Aquifex aeolicus
C;Species: Aquifex aeolicus
C;Date: 08-May-1998 #sequence_revision 08-May-1998 #text_change 05-Nov-1999
C;Accession: F70327
R;Deckert, G.; Warren, P.V.; Gaasterland, T.; Young, W.G.; Lenox, A.L.; Graham, D.E.; Overbeek, R.; Snead, M.A.; Keller, M.; Aujay, M.; Huber, R.; Feldman, R.A.; Short, J.M.; Olson, G.J.; Swanson, R.V.
Nature 392, 353-358, 1998
A;Title: The complete genome of the hyperthermophilic bacterium Aquifex aeolicus.
A;Reference number: A70300; MUID:98196666; PMID:9537320
A;Accession: F70327
A;Status: preliminary; nucleic acid sequence not shown; translation not shown
A;Molecule type: DNA
A;Residues: 1-368 <AQF>
A;Cross-references: GB:AE000683; NID:g2982996; PIDN:AAC06619.1; PID:g2983007; GB:AE000657
A;Experimental source: strain VF5
C;Genetics:
A;Gene: aq_303
C;Superfamily: conserved hypothetical protein sll0993

  Query Match 75.6%; Score 31; DB 2; Length 368;
  Best Local Similarity 71.4%; Pred. No. 80;
  Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

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Qy          2 VFFAEDF 8
              :|| |||
Db        107 IFFQEDF 113
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RESULT 25
I38028
matrix metalloproteinase 14 (EC 3.4.24.-) membrane type precursor - human
N;Alternate names: matrix metalloproteinase MMP14; membrane type matrix metalloproteinase 1
C;Species: Homo sapiens (man)
C;Date: 17-May-1996 #sequence_revision 17-May-1996 #text_change 20-Jun-2000
C;Accession: I38028; G02274; I38046; S78011; S45341; S71384
R;Will, H.; Hinzmann, B.
Eur. J. Biochem. 231, 602-608, 1995
A;Title: cDNA sequence and mRNA tissue distribution of a novel human matrix metalloproteinase with a potential transmembrane segment.
A;Reference number: I38028; MUID:95377289; PMID:7649159
A;Accession: I38028
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
A;Residues: 1-582 <WILL>
A;Cross-references: EMBL:Z48481; NID:g963053; PIDN:CAA88372.1; PID:g963054
R;Luo, G.
submitted to the EMBL Data Library, November 1995
A;Reference number: H00963
A;Accession: G02274
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
A;Residues: 1-582 <LUO>
A;Cross-references: EMBL:U41078; NID:g1127836; PIDN:AAA83770.1; PID:g1127837
R;Okada, A.; Bellocq, J.P.; Rouyer, N.; Chenard, M.P.; Rio, M.C.; Chambon, P.; Basset, P.
Proc. Natl. Acad. Sci. U.S.A. 92, 2730-2734, 1995
A;Title: Membrane-type matrix metalloproteinase (MT-MMP) gene is expressed in stromal cells of human colon, breast, and head and neck carcinomas.
A;Reference number: I38046; MUID:95224014; PMID:7708715
A;Accession: I38046
A;Status: translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
A;Residues: 1-7,'S',9-582 <OKA>
A;Cross-references: EMBL:X83535; NID:g804993; PIDN:CAA58519.1; PID:g804994
R;Seiki, M.
submitted to the EMBL Data Library, January 1994
A;Reference number: S78011
A;Accession: S78011
A;Molecule type: mRNA
A;Residues: 1-7,'S',9-337,'K',339-582 <SEI>
A;Cross-references: EMBL:D26512; NID:g793762; PIDN:BAA05519.1; PID:g793763
R;Sato, H.; Takino, T.; Okada, Y.; Cao, J.; Shinagawa, A.; Yamamoto, E.; Seiki, M.
Nature 370, 61-65, 1994
A;Title: A matrix metalloproteinase expressed on the surface of invasive tumour cells.
A;Reference number: S45341; MUID:94286011; PMID:8015608
A;Accession: S45341
A;Status: nucleic acid sequence not shown

A;Molecule type: mRNA
A;Residues: 1-7,'S',9-188,'R',190,'A',192-267,'K',269-272,'HY',275,'P',277-285,'KQ',288,'S',290,'PRC',294,'LN',297,'GLPPGLLFLIN',309-334,'D',336-337,'K',339-582 <SAT>
A;Cross-references: EMBL:D26512
R;Sato, H.; Kinoshita, T.; Takino, T.; Nakayama, K.; Seiki, M.
FEBS Lett. 393, 101-104, 1996
A;Title: Activation of a recombinant membrane type 1-matrix metalloproteinase (MT1-MMP) by furin and its interaction with tissue inhibitor of metalloproteinases (TIMP)-2.
A;Reference number: S71384; MUID:96397540; PMID:8804434
A;Accession: S71384
A;Molecule type: protein
A;Residues: 112-116 <SAW>
C;Genetics:
A;Gene: GDB:MMP14; MT1-MMP
A;Cross-references: GDB:375731; OMIM:600754
A;Map position: 14q11-14q12
C;Superfamily: interstitial collagenase; hemopexin repeat homology; matrix metalloproteinase homology
C;Keywords: glycoprotein; hydrolase; metalloproteinase; zinc; zymogen
F;1-23/Domain: signal sequence #status predicted <SIG>
F;24-97/Domain: activation peptide #status predicted <PRO>
F;61-284/Domain: matrix metalloproteinase homology <MMP>
F;98-582/Product: matrix metalloproteinase 14 membrane type #status predicted <MAT>
F;285-313/Domain: hinge #status predicted <HNG>
F;314-508/Domain: hemopexin repeat homology <PXN>
F;539-562/Domain: transmembrane #status predicted <TMM>
F;93,239,243,249/Binding site: zinc, catalytic (Cys, His, His, His) (inhibited) #status predicted
F;130/Binding site: carbohydrate (Asn) (covalent) #status predicted
F;239,243,249/Binding site: zinc, catalytic (His) (active) #status predicted
F;240/Active site: Glu #status predicted
F;319-508/Disulfide bonds: #status predicted

  Query Match 75.6%; Score 31; DB 2; Length 582;
  Best Local Similarity 62.5%; Pred. No. 1.3e+02;
  Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 LVFFAEDF 8
              ::|||| |
Db        178 MIFFAEGF 185
```

RESULT 26
T40652
hypothetical protein SPBC6B1.11c - fission yeast (Schizosaccharomyces pombe) (fragment)
C;Species: Schizosaccharomyces pombe
C;Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 03-Dec-1999
C;Accession: T40652
R;Wood, V.; Rajandream, M.A.; Barrell, B.G.; Hamlin, N.; Churcher, C.M.
submitted to the EMBL Data Library, February 1998
A;Reference number: Z21943
A;Accession: T40652
A;Status: preliminary; translated from GB/EMBL/DDBJ

A;Molecule type: DNA
A;Residues: 1-614 <WOO>
A;Cross-references: EMBL:AL021838; PIDN:CAA17054.1; GSPDB:GN00067;
SPDB:SPBC6B1.11c
A;Experimental source: strain 972h-; cosmid c6B1
C;Genetics:
A;Gene: SPDB:SPBC6B1.11c
A;Map position: 2

  Query Match   75.6%; Score 31; DB 2; Length 614;
  Best Local Similarity   85.7%; Pred. No. 1.4e+02;
  Matches   6; Conservative   0; Mismatches   1; Indels   0; Gaps   0;

Qy   2 VFFAEDF 8
              ||||| |
Db   344 VFFAEQF 350

RESULT 27
T24632
hypothetical protein T07A5.1 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999
C;Accession: T24632
R;Buck, D.
submitted to the EMBL Data Library, February 1995
A;Reference number: Z19915
A;Accession: T24632
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-622 <WIL>
A;Cross-references: EMBL:Z48055; PIDN:CAA88133.1; GSPDB:GN00021; CESP:T07A5.1
A;Experimental source: clone T07A5
C;Genetics:
A;Gene: CESP:T07A5.1
A;Map position: 3
A;Introns: 42/1; 74/3; 129/1; 145/1; 317/1; 328/3; 348/3; 397/3; 419/2; 461/3;
498/1; 544/3; 586/1; 598/2

  Query Match   75.6%; Score 31; DB 2; Length 622;
  Best Local Similarity   75.0%; Pred. No. 1.4e+02;
  Matches   6; Conservative   0; Mismatches   2; Indels   0; Gaps   0;

Qy   1 LVFFAEDF 8
              | |||||
Db   514 LAMFAEDF 521

RESULT 28
T46488
hypothetical protein DKFZp434J065.1 - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 04-Feb-2000 #sequence_revision 04-Feb-2000 #text_change 04-Feb-2000
C;Accession: T46488
R;Duesterhoeft, A.; Lauber, J.; Mewes, H.W.; Gassenhuber, J.; Wiemann, S.
submitted to the Protein Sequence Database, January 2000
A;Reference number: Z23035

A;Accession: T46488
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-741 <AAA>
A;Cross-references: EMBL:AL137638
A;Experimental source: adult testis; clone DKFZp434J065
C;Genetics:
A;Note: DKFZp434J065.1

  Query Match   75.6%; Score 31; DB 2; Length 741;
  Best Local Similarity   71.4%; Pred. No. 1.6e+02;
  Matches   5; Conservative   2; Mismatches   0; Indels   0; Gaps   0;

Qy   2 VFFAEDF 8
              :|:||||
Db   599 LFYAEDF 605

RESULT 29
JH0773
Alzheimer's disease amyloid beta protein precursor - African clawed frog
C;Species: Xenopus laevis (African clawed frog)
C;Date: 10-Jun-1993 #sequence_revision 10-Jun-1993 #text_change 13-Aug-1999
C;Accession: JH0773
R;Okado, H.; Okamoto, H.
Biochem. Biophys. Res. Commun. 189, 1561-1568, 1992
A;Title: A Xenopus homologue of the human beta-amyloid precursor protein:
developmental regulation of its gene expression.
A;Reference number: JH0773; MUID:93129227; PMID:1282805
A;Accession: JH0773
A;Molecule type: mRNA
A;Residues: 1-747 <OKA>
A;Cross-references: GB:S52417; NID:g263150; PIDN:AAB24853.1; PID:g263151
A;Experimental source: larva
C;Superfamily: Alzheimer's disease amyloid beta protein; animal Kunitz-type
proteinase inhibitor homology
C;Keywords: alternative splicing; amyloid
F;287-337/Domain: animal Kunitz-type proteinase inhibitor homology <BPI>

  Query Match   75.6%; Score 31; DB 2; Length 747;
  Best Local Similarity   85.7%; Pred. No. 1.7e+02;
  Matches   6; Conservative   1; Mismatches   0; Indels   0; Gaps   0;

Qy   1 LVFFAED 7
              ||||||:
Db   665 LVFFAEE 671

RESULT 30
T51920
probable xanthine dehydrogenase [imported] - Neurospora crassa
N;Alternate names: protein B23I11.320
C;Species: Neurospora crassa
C;Date: 20-Oct-2000 #sequence_revision 20-Oct-2000 #text_change 01-Dec-2000
C;Accession: T51920
R;Schulte, U.; Aign, V.; Hoheisel, J.; Brandt, P.; Fartmann, B.; Holland, R.;
Nyakatura, G.; Mewes, H.W.; Mannhaupt, G.

submitted to the Protein Sequence Database, August 2000
A;Reference number: Z25858
A;Accession: T51920
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-1364 <SCH>
A;Cross-references: EMBL:AL391572; GSPDB:GN00116; NCSP:B23I11.320
A;Experimental source: BAC clone B23I11; strain OR74A
C;Genetics:
A;Gene: NCSP:B23I11.320
A;Map position: 6
A;Introns: 66/2; 1321/3
C;Superfamily: xanthine dehydrogenase; ferredoxin [2Fe-2S] homology
C;Keywords: 2Fe-2S; metalloprotein
F;68,73,76,98/Binding site: 2Fe-2S cluster (Cys) (covalent) #status predicted

  Query Match   75.6%; Score 31; DB 2; Length 1364;
  Best Local Similarity   100.0%; Pred. No. 3.1e+02;
  Matches   6; Conservative   0; Mismatches   0; Indels   0; Gaps   0;

Qy   2 VFFAED 7
              ||||||
Db   681 VFFAED 686

RESULT 31
AC1587
hypothetical protein lin1236 [imported] - Listeria innocua (strain Clip11262)
C;Species: Listeria innocua
C;Date: 27-Nov-2001 #sequence_revision 27-Nov-2001 #text_change 27-Nov-2001
C;Accession: AC1587
R;Glaser, P.; Frangeul, L.; Buchrieser, C.; Amend, A.; Baquero, F.; Berche, P.;
Bloecker, H.; Brandt, P.; Chakraborty, T.; Charbit, A.; Chetouani, F.; Couve,
E.; de Daruvar, A.; Dehoux, P.; Domann, E.; Dominguez-Bernal, G.; Duchaud, E.;
Durand, L.; Dussurget, O.; Entian, K.D.; Fsihi, H.; Garcia-Del Portillo, F.;
Garrido, P.; Gautier, L.; Goebel, W.; Gomez-Lopez, N.; Hain, T.; Hauf, J.;
Jackson, D.; Jones, L.M.; Karst, U.
Science 294, 849-852, 2001
A;Authors: Kreft, J.; Kuhn, M.; Kunst, F.; Kurapkat, G.; Madueno, E.;
Maitournam, A.; Mata Vicente, J.; Ng, E.; Nordsiek, G.; Novella, S.; de Pablos,
B.; Perez-Diaz, J.C.; Remmel, B.; Rose, M.; Rusniok, C.; Schlueter, T.; Simoes,
N.; Tierrez, A.; Vazquez-Boland, J.A.; Voss, H.; Wehland, J.; Cossart, P.
A;Title: Comparative genomics of Listeria species.
A;Reference number: AB1077; MUID:21537279; PMID:11679669
A;Accession: AC1587
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-174 <GLA>
A;Cross-references: GB:AL592022; PIDN:CAC96467.1; PID:g16413710; GSPDB:GN00178
A;Experimental source: strain Clip11262
C;Genetics:
A;Gene: lin1236

  Query Match   73.2%; Score 30; DB 2; Length 174;
  Best Local Similarity   62.5%; Pred. No. 60;
  Matches   5; Conservative   2; Mismatches   1; Indels   0; Gaps   0;

```
Qy          1 LVFFAEDF 8
              |:||| |:
Db        145 LLFFASDY 152
```

RESULT 32
T12812
hypothetical protein yomX - Bacillus subtilis phage SPBc2
C;Species: Bacillus subtilis phage SPBc2
C;Date: 13-Aug-1999 #sequence_revision 13-Aug-1999 #text_change 20-Jun-2000
C;Accession: T12812; H69912
R;Lazarevic, V.; Duesterhoeft, A.; Soldo, B.; Hilbert, H.; Mauel, C.; Karamata, D.
submitted to the EMBL Data Library, August 1997
A;Description: The complete nucleotide sequence of the Bacillus subtilis SPbetac2 prophage.
A;Reference number: Z17583
A;Accession: T12812
A;Status: translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-216 <LAZ>
A;Cross-references: EMBL:AF020713; NID:g3025478; PID:g3025526; PIDN:AAC13021.1
R;Kunst, F.; Ogasawara, N.; Moszer, I.; Albertini, A.M.; Alloni, G.; Azevedo, V.; Bertero, M.G.; Bessieres, P.; Bolotin, A.; Borchert, S.; Boriss, R.; Boursier, L.; Brans, A.; Braun, M.; Brignell, S.C.; Bron, S.; Brouillet, S.; Bruschi, C.V.; Caldwell, B.; Capuano, V.; Carter, N.M.; Choi, S.K.; Codani, J.J.; Connerton, I.F.; Cummings, N.J.; Daniel, R.A.; Denizot, F.; Devine, K.M.; Duesterhoeft, A.; Ehrlich, S.D.; Emmerson, P.T.; Entian, K.D.; Errington, J.; Fabret, C.; Ferrari, E.
Nature 390, 249-256, 1997
A;Authors: Foulger, D.; Fritz, C.; Fujita, M.; Fujita, Y.; Fuma, S.; Galizzi, A.; Galleron, N.; Ghim, S.Y.; Glaser, P.; Goffeau, A.; Golightly, E.J.; Grandi, G.; Guiseppi, G.; Guy, B.J.; Haga, K.; Haiech, J.; Harwood, C.R.; Henaut, A.; Hilbert, H.; Holsappel, S.; Hosono, S.; Hullo, M.F.; Itaya, M.; Jones, L.; Joris, B.; Karamata, D.; Kasahara, Y.; Klaerr-Blanchard, M.; Klein, C.; Kobayashi, Y.; Koetter, P.; Koningstein, G.; Krogh, S.; Kumano, M.; Kurita, K.; Lapidus, A.; Lardinois, S.
A;Authors: Lauber, J.; Lazarevic, V.; Lee, S.M.; Levine, A.; Liu, H.; Masuda, S.; Maueel, C.; Medigue, C.; Medina, N.; Mellado, R.P.; Mizuno, M.; Moestl, D.; Nakai, S.; Noback, M.; Noone, D.; O'Reilly, M.; Ogawa, K.; Ogiwara, A.; Oudega, B.; Park, S.H.; Parro, V.; Pohl, T.M.; Portetelle, D.; Porwolik, S.; Prescott, A.M.; Presecan, E.; Pujic, P.; Purnelle, B.; Rapoport, G.; Rey, M.; Reynolds, S.; Rieger, M.; Rivolta, C.; Rocha, E.; Roche, B.; Rose, M.; Sadaie, Y.; Sato, T.; Scanlon, E.
A;Authors: Schleich, S.; Schroeter, R.; Scoffone, F.; Sekiguchi, J.; Sekowska, A.; Seror, S.J.; Serror, P.; Shin, B.S.; Soldo, B.; Sorokin, A.; Tacconi, E.; Takagi, T.; Takahashi, H.; Takemaru, K.; Takeuchi, M.; Tamakoshi, A.; Tanaka, T.; Terpstra, P.; Tognoni, A.; Tosato, V.; Uchiyama, S.; Vandenbol, M.; Vannier, F.; Vassarotti, A.; Viari, A.; Wambutt, R.; Wedler, E.; Wedler, H.; Weitzenegger, T.; Winters, P.; Wipat, A.; Yamamoto, H.; Yamane, K.; Yasumoto, K.; Yata, K.; Yoshida, K.
A;Authors: Yoshikawa, H.F.; Zumstein, E.; Yoshikawa, H.; Danchin, A.
A;Title: The complete genome sequence of the Gram-positive bacterium Bacillus subtilis.
A;Reference number: A69580; MUID:98044033; PMID:9384377
A;Accession: H69912
A;Status: nucleic acid sequence not shown; translation not shown

A;Molecule type: DNA
A;Residues: 1-216 <KUN>
A;Cross-references: GB:Z99115; GB:AL009126; NID:g2634478; PIDN:CAB14037.1;
PID:g2634539
A;Experimental source: strain 168
C;Genetics:
A;Gene: yomX
C;Superfamily: Bacillus subtilis phage SPBc2 hypothetical protein yomX

  Query Match   73.2%; Score 30; DB 2; Length 216;
  Best Local Similarity   62.5%; Pred. No. 75;
  Matches   5; Conservative   1; Mismatches   2; Indels   0; Gaps   0;

Qy   1 LVFFAEDF 8
              | || ||:
Db   180 LTFFGEDY 187

RESULT 33
T32121
hypothetical protein F59E11.6 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 29-Oct-1999
C;Accession: T32121
R;Bradshaw, H.
submitted to the EMBL Data Library, July 1997
A;Description: The sequence of C. elegans cosmid F59E11.
A;Reference number: Z21124
A;Accession: T32121
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-222 <BRA>
A;Cross-references: EMBL:AF016685; PIDN:AAB66220.1; GSPDB:GN00023; CESP:F59E11.6
A;Experimental source: strain Bristol N2; clone F59E11
C;Genetics:
A;Gene: CESP:F59E11.6
A;Map position: 5
A;Introns: 53/3; 89/3; 130/3; 150/3; 189/3

  Query Match   73.2%; Score 30; DB 2; Length 222;
  Best Local Similarity   83.3%; Pred. No. 77;
  Matches   5; Conservative   1; Mismatches   0; Indels   0; Gaps   0;

Qy   3 FFAEDF 8
              ||:|||
Db   119 FFSEDF 124

RESULT 34
E72049
conserved hypothetical protein CP0066 [imported] - Chlamydophila pneumoniae
(strains CWL029 and AR39)
C;Species: Chlamydophila pneumoniae, Chlamydia pneumoniae
C;Date: 23-Apr-1999 #sequence_revision 23-Apr-1999 #text_change 17-May-2002
C;Accession: E72049; A81617
R;Kalman, S.; Mitchell, W.; Marathe, R.; Lammel, C.; Fan, J.; Olinger, L.;
Grimwood, J.; Davis, R.W.; Stephens, R.S.

Nature Genet. 21, 385-389, 1999
A;Title: Comparative genomes of Clamydia pneumoniae and C. trachomatis.
A;Reference number: A72000; MUID:99206606; PMID:10192388
A;Accession: E72049
A;Molecule type: DNA
A;Residues: 1-224 <ARN>
A;Cross-references: GB:AE001650; GB:AE001363; NID:g4376973; PIDN:AAD18820.1;
PID:g4376982
A;Experimental source: strain CWL029
R;Read, T.D.; Brunham, R.C.; Shen, C.; Gill, S.R.; Heidelberg, J.F.; White, O.;
Hickey, E.K.; Peterson, J.; Utterback, T.; Berry, K.; Bass, S.; Linher, K.;
Weidman, J.; Khouri, H.; Craven, B.; Bowman, C.; Dodson, R.; Gwinn, M.; Nelson,
W.; DeBoy, R.; Kolonay, J.; McClarty, G.; Salzberg, S.L.; Eisen, J.; Fraser,
C.M.
Nucleic Acids Res. 28, 1397-1406, 2000
A;Title: Genome sequences of Chlamydia trachomatis MoPn and Chlamydia pneumoniae
AR39.
A;Reference number: A81500; MUID:20150255; PMID:10684935
A;Accession: A81617
A;Molecule type: DNA
A;Residues: 1-224 <REA>
A;Cross-references: GB:AE002170; GB:AE002161; NID:g7189000; PIDN:AAF37955.1;
PID:g7189003; GSPDB:GN00122; TIGR:CP0066
A;Experimental source: strain AR39, HL cells
C;Genetics:
A;Gene: CPn0681; CP0066
C;Superfamily: hypothetical protein HI1603

  Query Match   73.2%; Score 30; DB 2; Length 224;
  Best Local Similarity   57.1%; Pred. No. 78;
  Matches   4; Conservative   3; Mismatches   0; Indels   0; Gaps   0;

Qy   2 VFFAEDF 8
              :||::||
Db   180 IFFSDDF 186

RESULT 35
F86575
CT691 hypothetical protein [imported] - Chlamydophila pneumoniae (strain J138)
C;Species: Chlamydophila pneumoniae, Chlamydia pneumoniae
C;Date: 02-Mar-2001 #sequence_revision 02-Mar-2001 #text_change 17-May-2002
C;Accession: F86575
R;Shirai, M.; Hirakawa, H.; Kimoto, M.; Tabuchi, M.; Kishi, F.; Ouchi, K.;
Shiba, T.; Ishii, K.; Hattori, M.; Kuhara, S.; Nakazawa, T.
Nucleic Acids Res. 28, 2311-2314, 2000
A;Title: Comparison of whole genome sequences of chlamydia pneumoniae J138.
A;Reference number: A86491; MUID:20330349; PMID:10871362
A;Accession: F86575
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-224 <STO>
A;Cross-references: GB:BA000008; NID:g8979053; PIDN:BAA98888.1; GSPDB:GN00142
A;Experimental source: strain J138
C;Genetics:
A;Gene: CPj0681
C;Superfamily: hypothetical protein HI1603

Query Match 73.2%; Score 30; DB 2; Length 224;
Best Local Similarity 57.1%; Pred. No. 78;
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

```
Qy          2 VFFAEDF 8
              :||::||
Db        180 IFFSDDF 186
```

RESULT 36
AG0459
Sec-independent protein translocase protein TatC [imported] - Yersinia pestis (strain CO92)
C;Species: Yersinia pestis
C;Date: 02-Nov-2001 #sequence_revision 02-Nov-2001 #text_change 09-Nov-2001
C;Accession: AG0459
R;Parkhill, J.; Wren, B.W.; Thomson, N.R.; Titball, R.W.; Holden, M.T.G.; Prentice, M.B.; Sebaihia, M.; James, K.D.; Churcher, C.; Mungall, K.L.; Baker, S.; Basham, D.; Bentley, S.D.; Brooks, K.; Cerdeno-Tarraga, A.M.; Chillingworth, T.; Cronin, A.; Davies, R.M.; Davis, P.; Dougan, G.; Feltwell, T.; Hamlin, N.; Holroyd, S.; Jagels, K.; Leather, S.; Karlyshev, A.V.; Moule, S.; Oyston, P.C.F.; Quail, M.; Rutherford, K.; Simmonds, M.; Skelton, J.; Stevens, K.; Whitehead, S.; Barrell, B.G.
Nature 413, 523-527, 2001
A;Title: Genome sequence of Yersinia pestis, the causative agent of plague.
A;Reference number: AB0001; MUID:21470413; PMID:11586360
A;Accession: AG0459
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-258 <KUR>
A;Cross-references: GB:AL590842; PIDN:CAC93243.1; PID:g15981689; GSPDB:GN00175
C;Genetics:
A;Gene: tatC
C;Superfamily: conserved hypothetical protein HI0188

Query Match 73.2%; Score 30; DB 2; Length 258;
Best Local Similarity 85.7%; Pred. No. 90;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 LVFFAED 7
              ||||| |
Db         34 LVFFAND 40
```

RESULT 37
F83773
ABC transporter (substrate-binding protein) BH0990 [imported] - Bacillus halodurans (strain C-125)
C;Species: Bacillus halodurans
C;Date: 01-Dec-2000 #sequence_revision 01-Dec-2000 #text_change 15-Jun-2001
C;Accession: F83773
R;Takami, H.; Nakasone, K.; Takaki, Y.; Maeno, G.; Sasaki, R.; Masui, N.; Fuji, F.; Hirama, C.; Nakamura, Y.; Ogasawara, N.; Kuhara, S.; Horikoshi, K.
Nucleic Acids Res. 28, 4317-4331, 2000
A;Title: Complete genome sequence of the alkaliphilic bacterium Bacillus halodurans and genomic sequence comparison with Bacillus subtilis.

A;Reference number: A83650; MUID:20512582; PMID:11058132
A;Accession: F83773
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-327 <STO>
A;Cross-references: GB:AP001510; GB:BA000004; NID:g10173440; PIDN:BAB04709.1;
GSPDB:GN00137
A;Experimental source: strain C-125
C;Genetics:
A;Gene: BH0990

  Query Match   73.2%; Score 30; DB 2; Length 327;
  Best Local Similarity   71.4%; Pred. No. 1.1e+02;
  Matches   5; Conservative   1; Mismatches   1; Indels   0; Gaps   0;

Qy   2 VFFAEDF 8
              :| ||||
Db   263 IFLAEDF 269

RESULT 38
B90519
hypothetical protein MYPU_0580 [imported] - Mycoplasma pulmonis (strain UAB
CTIP)
C;Species: Mycoplasma pulmonis
C;Date: 24-May-2001 #sequence_revision 24-May-2001 #text_change 03-Aug-2001
C;Accession: B90519
R;Chambaud, I.; Heilig, R.; Ferris, S.; Barbe, V.; Samson, D.; Galisson, F.;
Moszer, I.; Dybvig, K.; Wroblewski, H.; Viari, A.; Rocha, E.P.C.; Blanchard, A.
Nucleic Acids Res. 29, 2145-2153, 2001
A;Title: The complete genome sequence of the murine respiratory pathogen
Mycoplasma pulmonis.
A;Reference number: A99512; MUID:21267165; PMID:11353084
A;Accession: B90519
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-402 <KUR>
A;Cross-references: GB:AL445566; PID:g14089471; PIDN:CAC13231.1; GSPDB:GN00153
A;Experimental source: strain UAB CTIP
C;Genetics:
A;Gene: MYPU_0580
A;Genetic code: SGC3

  Query Match   73.2%; Score 30; DB 2; Length 402;
  Best Local Similarity   83.3%; Pred. No. 1.4e+02;
  Matches   5; Conservative   1; Mismatches   0; Indels   0; Gaps   0;

Qy   3 FFAEDF 8
              ||:|||
Db   205 FFSEDF 210

RESULT 39
AF0003
oxygen-independent coproporphyrinogen III oxidase [imported] - Yersinia pestis
(strain CO92)
C;Species: Yersinia pestis

C;Date: 02-Nov-2001 #sequence_revision 02-Nov-2001 #text_change 09-Nov-2001
C;Accession: AF0003
R;Parkhill, J.; Wren, B.W.; Thomson, N.R.; Titball, R.W.; Holden, M.T.G.; Prentice, M.B.; Sebaihia, M.; James, K.D.; Churcher, C.; Mungall, K.L.; Baker, S.; Basham, D.; Bentley, S.D.; Brooks, K.; Cerdeno-Tarraga, A.M.; Chillingworth, T.; Cronin, A.; Davies, R.M.; Davis, P.; Dougan, G.; Feltwell, T.; Hamlin, N.; Holroyd, S.; Jagels, K.; Leather, S.; Karlyshev, A.V.; Moule, S.; Oyston, P.C.F.; Quail, M.; Rutherford, K.; Simmonds, M.; Skelton, J.; Stevens, K.; Whitehead, S.; Barrell, B.G.
Nature 413, 523-527, 2001
A;Title: Genome sequence of Yersinia pestis, the causative agent of plague.
A;Reference number: AB0001; MUID:21470413; PMID:11586360
A;Accession: AF0003
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-457 <KUR>
A;Cross-references: GB:AL590842; PIDN:CAC88888.1; PID:g15978136; GSPDB:GN00175
C;Genetics:
A;Gene: hemN
C;Superfamily: oxygen-independent coproporphyrinogen oxidase

  Query Match 73.2%; Score 30; DB 2; Length 457;
  Best Local Similarity 83.3%; Pred. No. 1.6e+02;
  Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 3 FFAEDF 8
  :|||||
Db 399 YFAEDF 404

RESULT 40
T47568
fructokinase-like protein - Arabidopsis thaliana
N;Alternate names: protein F24B22.50
C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 20-Apr-2000 #sequence_revision 20-Apr-2000 #text_change 20-Apr-2000
C;Accession: T47568
R;Bloecker, H.; Mewes, H.W.; Lemcke, K.; Mayer, K.F.X.; Quetier, F.; Salanoubat, M.
submitted to the Protein Sequence Database, January 2000
A;Reference number: Z23016
A;Accession: T47568
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-471 <BLO>
A;Cross-references: EMBL:AL132957
A;Experimental source: cultivar Columbia; BAC clone F24B22
C;Genetics:
A;Map position: 3
A;Introns: 241/3
A;Note: F24B22.50

  Query Match 73.2%; Score 30; DB 2; Length 471;
  Best Local Similarity 83.3%; Pred. No. 1.7e+02;
  Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 3 FFAEDF 8

```
              :|||||
Db        332 YFAEDF 337


RESULT 41
S54091
hypothetical protein YPR070w - yeast (Saccharomyces cerevisiae)
N;Alternate names: hypothetical protein YP9499.25
C;Species: Saccharomyces cerevisiae
C;Date: 08-Jul-1995 #sequence_revision 19-Oct-1995 #text_change 19-Apr-2002
C;Accession: S54091; S69058
R;Badcock, K.; Churcher, C.M.
submitted to the EMBL Data Library, May 1995
A;Reference number: S54059
A;Accession: S54091
A;Molecule type: DNA
A;Residues: 1-566 <BAD>
A;Cross-references: EMBL:Z49219; NID:g805025; PID:g805050; MIPS:YPR070w
A;Experimental source: strain AB972
R;Couch, J.
submitted to the EMBL Data Library, March 1996
A;Description: The sequence of S. cerevisiae cosmid 9513.
A;Reference number: S69057
A;Accession: S69058
A;Molecule type: DNA
A;Residues: 1-566 <COU>
A;Cross-references: EMBL:U51033; NID:g1230676; PID:g1230678; MIPS:YPR070w
C;Genetics:
A;Gene: SGD:MED1
A;Cross-references: SGD:S0006274
A;Map position: 16R

  Query Match             73.2%;  Score 30;  DB 2;  Length 566;
  Best Local Similarity   62.5%;  Pred. No. 2e+02;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LVFFAEDF 8
              |::| |||
Db        270 LIWFPEDF 277


RESULT 42
T46822
phytoene desaturase (EC 1.3.-.-) [validated] - Xanthophyllomyces dendrorhous
C;Species: Xanthophyllomyces dendrorhous
C;Date: 17-Mar-2000 #sequence_revision 17-Mar-2000 #text_change 03-Jun-2002
C;Accession: T46822
R;Verdoes, J.C.; Misawa, N.; van Ooyen, A.J.J.
Biotechnol. Bioeng. 63, 750-755, 1999
A;Title: Cloning and characterization of the astaxanthin biosynthetic gene
encoding phytoene desaturase of Xanthopyllomyces dendrorhous (Phaffia
rhodozyma).
A;Reference number: Z24099; MUID:99326230; PMID:10397832
A;Accession: T46822
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-582 <VER>
```

A;Cross-references: EMBL:Y15007; NID:g2505954; PIDN:CAA75240.1; PID:g2505955
A;Experimental source: strain CBS 6938
C;Genetics:
A;Gene: crtI
A;Introns: 16/1; 40/3; 56/3; 60/3; 91/1; 101/3; 136/3; 175/3; 233/2; 351/1; 401/3
C;Function:
A;Description: catalyzes the conversion of prephytoene pyrophosphate to phytoene [validated, PMID:10397832]
C;Superfamily: phytoene dehydrogenase
C;Keywords: oxidoreductase

Query Match 73.2%; Score 30; DB 2; Length 582;
Best Local Similarity 71.4%; Pred. No. 2.1e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```
Qy          2 VFFAEDF 8
              :| ||||
Db        352 IFLAEDF 358
```

RESULT 43
H69651
lichenan operon transcription antiterminator licR - Bacillus subtilis
N;Alternate names: cel operon regulator
C;Species: Bacillus subtilis
C;Date: 05-Dec-1997 #sequence_revision 05-Dec-1997 #text_change 15-Oct-1999
C;Accession: H69651; S57758
R;Kunst, F.; Ogasawara, N.; Moszer, I.; Albertini, A.M.; Alloni, G.; Azevedo, V.; Bertero, M.G.; Bessieres, P.; Bolotin, A.; Borchert, S.; Boriss, R.; Boursier, L.; Brans, A.; Braun, M.; Brignell, S.C.; Bron, S.; Brouillet, S.; Bruschi, C.V.; Caldwell, B.; Capuano, V.; Carter, N.M.; Choi, S.K.; Codani, J.J.; Connerton, I.F.; Cummings, N.J.; Daniel, R.A.; Denizot, F.; Devine, K.M.; Duesterhoeft, A.; Ehrlich, S.D.; Emmerson, P.T.; Entian, K.D.; Errington, J.; Fabret, C.; Ferrari, E.
Nature 390, 249-256, 1997
A;Authors: Foulger, D.; Fritz, C.; Fujita, M.; Fujita, Y.; Fuma, S.; Galizzi, A.; Galleron, N.; Ghim, S.Y.; Glaser, P.; Goffeau, A.; Golightly, E.J.; Grandi, G.; Guiseppi, G.; Guy, B.J.; Haga, K.; Haiech, J.; Harwood, C.R.; Henaut, A.; Hilbert, H.; Holsappel, S.; Hosono, S.; Hullo, M.F.; Itaya, M.; Jones, L.; Joris, B.; Karamata, D.; Kasahara, Y.; Klaerr-Blanchard, M.; Klein, C.; Kobayashi, Y.; Koetter, P.; Koningstein, G.; Krogh, S.; Kumano, M.; Kurita, K.; Lapidus, A.; Lardinois, S.
A;Authors: Lauber, J.; Lazarevic, V.; Lee, S.M.; Levine, A.; Liu, H.; Masuda, S.; Maueel, C.; Medigue, C.; Medina, N.; Mellado, R.P.; Mizuno, M.; Moestl, D.; Nakai, S.; Noback, M.; Noone, D.; O'Reilly, M.; Ogawa, K.; Ogiwara, A.; Oudega, B.; Park, S.H.; Parro, V.; Pohl, T.M.; Portetelle, D.; Porwolik, S.; Prescott, A.M.; Presecan, E.; Pujic, P.; Purnelle, B.; Rapoport, G.; Rey, M.; Reynolds, S.; Rieger, M.; Rivolta, C.; Rocha, E.; Roche, B.; Rose, M.; Sadaie, Y.; Sato, T.; Scanlon, E.
A;Authors: Schleich, S.; Schroeter, R.; Scoffone, F.; Sekiguchi, J.; Sekowska, A.; Seror, S.J.; Serror, P.; Shin, B.S.; Soldo, B.; Sorokin, A.; Tacconi, E.; Takagi, T.; Takahashi, H.; Takemaru, K.; Takeuchi, M.; Tamakoshi, A.; Tanaka, T.; Terpstra, P.; Tognoni, A.; Tosato, V.; Uchiyama, S.; Vandenbol, M.; Vannier, F.; Vassarotti, A.; Viari, A.; Wambutt, R.; Wedler, E.; Wedler, H.; Weitzenegger, T.; Winters, P.; Wipat, A.; Yamamoto, H.; Yamane, K.; Yasumoto, K.; Yata, K.; Yoshida, K.

A;Authors: Yoshikawa, H.F.; Zumstein, E.; Yoshikawa, H.; Danchin, A.
A;Title: The complete genome sequence of the Gram-positive bacterium Bacillus subtilis.
A;Reference number: A69580; MUID:98044033; PMID:9384377
A;Accession: H69651
A;Status: preliminary; nucleic acid sequence not shown; translation not shown
A;Molecule type: DNA
A;Residues: 1-641 <KUN>
A;Cross-references: GB:Z99123; GB:AL009126; NID:g2636240; PIDN:CAB15886.1; PID:e1186359; PID:g2636395
A;Experimental source: strain 168
R;Glaser, P.; Lubochinsky, B.; Danchin, A.
submitted to the EMBL Data Library, July 1995
A;Description: Bacillus subtilis cel operon.
A;Reference number: S57758
A;Accession: S57758
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-641 <GLA>
A;Cross-references: EMBL:Z49992; NID:g895746; PIDN:CAA90284.1; PID:g895747
C;Genetics:
A;Gene: licR
C;Keywords: transcription antitermination

  Query Match 73.2%; Score 30; DB 2; Length 641;
  Best Local Similarity 85.7%; Pred. No. 2.3e+02;
  Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LVFFAED 7
      |||| ||
Db 505 LVFFQED 511

RESULT 44
D81330
glycine-tRNA ligase (EC 6.1.1.14) beta chain Cj1234 [imported] - Campylobacter jejuni (strain NCTC 11168)
C;Species: Campylobacter jejuni
C;Date: 31-Mar-2000 #sequence_revision 31-Mar-2000 #text_change 03-Jun-2002
C;Accession: D81330
R;Parkhill, J.; Wren, B.W.; Mungall, K.; Ketley, J.M.; Churcher, C.; Basham, D.; Chillingworth, T.; Davies, R.M.; Feltwell, T.; Holroyd, S.; Jagels, K.; Karlyshev, A.; Moule, S.; Pallen, M.J.; Penn, C.W.; Quail, M.; Rajandream, M.A.; Rutherford, K.M.; VanVliet, A.; Whitehead, S.; Barrell, B.G.
Nature 403, 665-668, 2000
A;Title: The genome sequence of the food-borne pathogen Campylobacter jejuni reveals hypervariable sequences.
A;Reference number: A81250; MUID:20150912; PMID:10688204
A;Accession: D81330
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-664 <PAR>
A;Cross-references: GB:AL139077; GB:AL111168; NID:g6968444; PIDN:CAB73488.1; PID:g6968667; GSPDB:GN00120; CJSP:Cj1234
A;Experimental source: serotype O2, strain NCTC 11168
C;Genetics:
A;Gene: glyS; Cj1234

C;Superfamily: glycine-tRNA ligase beta chain
C;Keywords: ligase

  Query Match 73.2%; Score 30; DB 2; Length 664;
  Best Local Similarity 75.0%; Pred. No. 2.4e+02;
  Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LVFFAEDF 8
      |||| |:|
Db 51 LVFFHENF 58

RESULT 45
T03119
hypothetical protein 24 - alcelaphine herpesvirus 1
C;Species: alcelaphine herpesvirus 1
C;Date: 24-Mar-1999 #sequence_revision 24-Mar-1999 #text_change 08-Oct-1999
C;Accession: T03119
R;Ensser, A.; Pflanz, R.; Fleckenstein, B.
J. Virol. 71, 6517-6525, 1997
A;Title: Primary structure of the alcelaphine herpesvirus 1 genome.
A;Reference number: Z14840; MUID:97404659; PMID:9261371
A;Accession: T03119
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-745 <ENS>
A;Cross-references: EMBL:AF005370; NID:g2337967; PIDN:AAC58071.1; PID:g2337987

  Query Match 73.2%; Score 30; DB 2; Length 745;
  Best Local Similarity 57.1%; Pred. No. 2.7e+02;
  Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 2 VFFAEDF 8
      :|::|||
Db 466 IFYSEDF 472

RESULT 46
T45876
hypothetical protein F4P12.60 - Arabidopsis thaliana
C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 04-Feb-2000 #sequence_revision 04-Feb-2000 #text_change 20-Jun-2000
C;Accession: T45876
R;Bloecker, H.; Mewes, H.W.; Lemcke, K.; Mayer, K.F.X.; Quetier, F.; Salanoubat, M.
submitted to the Protein Sequence Database, January 2000
A;Reference number: Z23016
A;Accession: T45876
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-768 <BLO>
A;Cross-references: EMBL:AL132966
A;Experimental source: cultivar Columbia; BAC clone F4P12
C;Genetics:
A;Map position: 3
A;Note: F4P12.60
C;Superfamily: Arabidopsis thaliana hypothetical protein T8H10.30

Query Match 73.2%; Score 30; DB 2; Length 768;
Best Local Similarity 83.3%; Pred. No. 2.8e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

```
Qy          2 VFFAED 7
              :|||||
Db        724 IFFAED 729
```

RESULT 47
A30093
beta-galactosidase (EC 3.2.1.23) - Lactobacillus delbrueckii subsp. bulgaricus
N;Alternate names: lactase
C;Species: Lactobacillus delbrueckii subsp. bulgaricus
C;Date: 21-May-1990 #sequence_revision 21-May-1990 #text_change 15-Oct-1999
C;Accession: A30093
R;Schmidt, B.F.; Adams, R.M.; Requadt, C.; Power, S.; Mainzer, S.E.
J. Bacteriol. 171, 625-635, 1989
A;Title: Expression and nucleotide sequence of the Lactobacillus bulgaricus beta-galactosidase gene cloned in Escherichia coli.
A;Reference number: A30093; MUID:89123132; PMID:2492511
A;Accession: A30093
A;Molecule type: DNA
A;Residues: 1-1007 <SCH>
A;Cross-references: GB:M23530; NID:g149546; PIDN:AAA25240.1; PID:g149547
C;Superfamily: beta-galactosidase
C;Keywords: glycosidase; hydrolase

Query Match 73.2%; Score 30; DB 2; Length 1007;
Best Local Similarity 83.3%; Pred. No. 3.7e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

```
Qy          3 FFAEDF 8
              |:||||
Db         74 FYAEDF 79
```

RESULT 48
T15963
hypothetical protein F07F6.4 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 20-Sep-1999
C;Accession: T15963
R;Chissoe, S.
submitted to the EMBL Data Library, July 1995
A;Description: The sequence of C. elegans cosmid F07F6.
A;Reference number: Z18438
A;Accession: T15963
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-1159 <CHI>
A;Cross-references: EMBL:U23486; NID:g746447; PID:g746450; PIDN:AAC46777.1; CESP:F07F6.4
A;Experimental source: strain Bristol N2
C;Genetics:
A;Gene: CESP:F07F6.4

A;Introns: 26/3; 44/1; 90/3; 148/3; 293/3; 397/2; 452/3; 485/3; 519/3; 591/3;
626/3; 666/3; 806/3; 838/3; 885/3; 906/3; 946/3; 1086/3; 1118/3

  Query Match   73.2%; Score 30; DB 2; Length 1159;
  Best Local Similarity   83.3%; Pred. No. 4.2e+02;
  Matches   5; Conservative   1; Mismatches   0; Indels   0; Gaps   0;

Qy   3 FFAEDF 8
              |||:||
Db   153 FFAQDF 158

RESULT 49
JE0120
glycoprotein A - mouse
C;Species: Mus musculus (house mouse)
C;Date: 02-Jun-1998 #sequence_revision 10-Jul-1998 #text_change 15-Jun-2001
C;Accession: JE0120
R;Haidaris, C.G.; Medzihradsky, O.F.; Gigliotti, F.; Simpson-haidaris, P.J.
DNA Res. 5, 77-85, 1998
A;Title: Molecular characterization of mouse Pneumocystis carinii surface
glycoprotein A.
A;Reference number: JE0120; MUID:98344138; PMID:9679195
A;Accession: JE0120
A;Molecule type: mRNA
A;Residues: 1-1282 <HAI>
A;Cross-references: GB:AF143102
C;Comment: This protein is a surface antigen of pneumonia.
C;Superfamily: Pneumocystis carinii major surface glycoprotein MSG100
C;Keywords: glycoprotein
F;248,612,717,779,1063/Binding site: carbohydrate (Asn) (covalent) #status
predicted

  Query Match   73.2%; Score 30; DB 2; Length 1282;
  Best Local Similarity   83.3%; Pred. No. 4.7e+02;
  Matches   5; Conservative   1; Mismatches   0; Indels   0; Gaps   0;

Qy   3 FFAEDF 8
              ||:|||
Db   121 FFSEDF 126

RESULT 50
T42654
hypothetical protein DKFZp434G1115.1 - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 11-Jan-2000 #sequence_revision 11-Jan-2000 #text_change 11-Jan-2000
C;Accession: T42654
R;Bloecker, H.; Boecher, M.; Brandt, P.; Mewes, H.W.; Gassenhuber, J.; Wiemann,
S.
submitted to the Protein Sequence Database, November 1999
A;Reference number: Z22230
A;Accession: T42654
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-1366 <AAA>
A;Cross-references: EMBL:AL133051

A;Experimental source: adult testis; clone DKFZp434G1115
C;Genetics:
A;Note: DKFZp434G1115.1

Query Match 73.2%; Score 30; DB 2; Length 1366;
Best Local Similarity 83.3%; Pred. No. 5e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

```
Qy          3 FFAEDF 8
              |:||||
Db        737 FYAEDF 742
```

RESULT 51
A45974
collagen alpha 1(XIV) chain precursor, short form 2 - chicken
N;Alternate names: undulin
C;Species: Gallus gallus (chicken)
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 15-Sep-2003
C;Accession: A45974; S30085; S22916; S17035; S20833
R;Gerecke, D.R.; Foley, J.W.; Castagnola, P.; Gennari, M.; Dublet, B.; Cancedda, R.; Linsenmayer, T.F.; van der Rest, M.; Olsen, B.R.; Gordon, M.K.
J. Biol. Chem. 268, 12177-12184, 1993
A;Title: Type XIV collagen is encoded by alternative transcripts with distinct 5' regions and is a multidomain protein with homologies to von Willebrand's factor, fibronectin, and other matrix proteins.
A;Reference number: A45974; MUID:93280195; PMID:8505337
A;Accession: A45974
A;Status: preliminary
A;Molecule type: mRNA; protein
A;Residues: 1-1747 <GER>
A;Experimental source: embryo skin
A;Note: sequence inconsistent with the nucleotide translation
A;Note: sequence extracted from NCBI backbone (NCBIN:133364, NCBIP:133365)
R;Apte, S.S.
submitted to the EMBL Data Library, March 1992
A;Reference number: S30085
A;Accession: S30085
A;Molecule type: mRNA
A;Residues: 1472-1660 <APT>
A;Cross-references: EMBL:X65122; NID:g62871; PIDN:CAA46238.1; PID:g938175
R;Trueb, J.; Trueb, B.
Eur. J. Biochem. 207, 549-557, 1992
A;Title: Type XIV collagen is a variant of undulin.
A;Reference number: S22916; MUID:92339443; PMID:1339349
A;Accession: S22916
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 286-494,'Q',496-834,'A',836-1119,'KL',1122-1402,1409-1439 <TRU>
R;Gordon, M.K.; Castagnola, P.; Dublet, B.; Linsenmayer, T.F.; van der Rest, M.; Mayne, R.; Olsen, B.R.
Eur. J. Biochem. 201, 333-338, 1991
A;Title: Cloning of a cDNA for a new member of the class of fibril-associated collagens with interrupted triple helices.
A;Reference number: S17035; MUID:92037585; PMID:1935930
A;Accession: S17035
A;Molecule type: mRNA

A;Residues: 1472-1659 <GOR1>
A;Accession: S20833
A;Molecule type: protein
A;Residues: 1551-1570;1593-1599;1639-1667 <GOR2>
C;Keywords: alternative splicing; coiled coil; extracellular matrix;
glycoprotein; trimer; triple helix
F;40-204/Domain: von Willebrand factor type A repeat homology <VWA1>
F;236-317/Domain: fibronectin type III repeat homology <FN3A>
F;326-409/Domain: fibronectin type III repeat homology <FN3B>
F;418-498/Domain: fibronectin type III repeat homology <FN3C>
F;507-591/Domain: fibronectin type III repeat homology <FN3D>
F;625-707/Domain: fibronectin type III repeat homology <FN3E>
F;716-798/Domain: fibronectin type III repeat homology <FN3F>
F;806-893/Domain: fibronectin type III repeat homology <FN3G>
F;924-1089/Domain: von Willebrand factor type A repeat homology <VWA2>
F;1111-1352/Domain: non-collagenous NC4 #status predicted <NC4>
F;1511-1553/Domain: non-collagenous NC2 #status predicted <NC2>
F;1554-1659/Domain: triple helical domain COL1 #status predicted <COL1>

  Query Match   73.2%; Score 30; DB 2; Length 1747;
  Best Local Similarity   71.4%; Pred. No. 6.5e+02;
  Matches   5; Conservative   1; Mismatches   1; Indels   0; Gaps   0;

Qy   2 VFFAEDF 8
              ||| :||
Db   1083 VFFVDDF 1089

RESULT 52
S31212
collagen alpha 1(XIV) chain precursor, short form - chicken
C;Species: Gallus gallus (chicken)
C;Date: 11-Mar-1998 #sequence_revision 17-Apr-1998 #text_change 15-Sep-2003
C;Accession: S31212
R;Waelchli, C.; Trueb, J.; Kessler, B.; Winterhalter, K.H.; Trueb, B.
Eur. J. Biochem. 212, 483-490, 1993
A;Title: Complete primary structure of chicken collagen XIV.
A;Reference number: S31211; MUID:93185668; PMID:8444186
A;Accession: S31212
A;Status: nucleic acid sequence not shown; translation not shown
A;Molecule type: mRNA
A;Residues: 1-1857 <WAE>
A;Cross-references: EMBL:X70792; NID:g288874; PIDN:CAA50063.1; PID:g288875
A;Note: the nucleotide sequence was submitted to the EMBL Data Library, January
1993
C;Genetics:
A;Gene: Col14A1
C;Keywords: alternative splicing; coiled coil; extracellular matrix;
glycoprotein; trimer; triple helix
F;1-28/Domain: signal sequence #status predicted <SIG>
F;29-1857/Product: collagen alpha 1(XIV) chain, short form #status predicted
<MAT>
F;29-110/Domain: fibronectin type III repeat homology <FN3A>
F;156-320/Domain: von Willebrand factor type A repeat homology <VWA1>
F;352-433/Domain: fibronectin type III repeat homology <FN3B>
F;442-525/Domain: fibronectin type III repeat homology <FN3C>
F;534-614/Domain: fibronectin type III repeat homology <FN3D>

F;623-707/Domain: fibronectin type III repeat homology <FN3E>
F;741-823/Domain: fibronectin type III repeat homology <FN3F>
F;832-914/Domain: fibronectin type III repeat homology <FN3G>
F;922-1009/Domain: fibronectin type III repeat homology <FN3H>
F;1040-1205/Domain: von Willebrand factor type A repeat homology <VWA2>

Query Match 73.2%; Score 30; DB 2; Length 1857;
Best Local Similarity 71.4%; Pred. No. 6.9e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```
Qy          2 VFFAEDF 8
              ||| :||
Db       1199 VFFVDDF 1205
```

RESULT 53
S78476
collagen alpha 1(XIV) chain precursor, long form - chicken
C;Species: Gallus gallus (chicken)
C;Date: 11-Mar-1998 #sequence_revision 17-Apr-1998 #text_change 15-Sep-2003
C;Accession: S78476; S31211
R;Trueb, B.
submitted to the EMBL Data Library, January 1993
A;Reference number: S78476
A;Accession: S78476
A;Molecule type: mRNA
A;Residues: 1-1888 <TRU>
A;Cross-references: EMBL:X70793; NID:g288872; PIDN:CAA50064.1; PID:g288873
R;Waelchli, C.; Trueb, J.; Kessler, B.; Winterhalter, K.H.; Trueb, B.
Eur. J. Biochem. 212, 483-490, 1993
A;Title: Complete primary structure of chicken collagen XIV.
A;Reference number: S31211; MUID:93185668; PMID:8444186
A;Accession: S31211
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-416;1460-1811,1843-1888 <WAE>
A;Cross-references: EMBL:X70793
C;Genetics:
A;Gene: Col14A1
C;Keywords: alternative splicing; coiled coil; extracellular matrix;
glycoprotein; trimer; triple helix
F;1-28/Domain: signal sequence #status predicted <SIG>
F;29-1888/Product: collagen alpha 1(XIV) chain, long form #status predicted
<MAT>
F;29-110/Domain: fibronectin type III repeat homology <FN3A>
F;156-320/Domain: von Willebrand factor type A repeat homology <VWA1>
F;352-433/Domain: fibronectin type III repeat homology <FN3B>
F;442-525/Domain: fibronectin type III repeat homology <FN3C>
F;534-614/Domain: fibronectin type III repeat homology <FN3D>
F;623-707/Domain: fibronectin type III repeat homology <FN3E>
F;741-823/Domain: fibronectin type III repeat homology <FN3F>
F;832-914/Domain: fibronectin type III repeat homology <FN3G>
F;922-1009/Domain: fibronectin type III repeat homology <FN3H>
F;1040-1205/Domain: von Willebrand factor type A repeat homology <VWA2>

Query Match 73.2%; Score 30; DB 2; Length 1888;
Best Local Similarity 71.4%; Pred. No. 7e+02;

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  Matches    5;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 VFFAEDF 8
              ||| :||
Db       1199 VFFVDDF 1205


RESULT 54
T17847
hypothetical protein a347L - Chlorella virus PBCV-1
C;Species: Chlorella virus PBCV-1
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999
C;Accession: T17847
R;Graves, M.V.; Van Etten, J.L.
submitted to the EMBL Data Library, May 1999
A;Reference number: Z18806
A;Accession: T17847
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-70 <GRA>
A;Cross-references: EMBL:U42580; NID:g4028896; PIDN:AAC96715.1
A;Experimental source: specific host Chlorella strain NC64A
C;Genetics:
A;Note: a347L

  Query Match             70.7%;  Score 29;  DB 2;  Length 70;
  Best Local Similarity   62.5%;  Pred. No. 38;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 LVFFAEDF 8
              |||| ::|
Db         45 LVFFPDEF 52


RESULT 55
AH1192
B. subtilis YneR protein homolog lmo0944 [imported] - Listeria monocytogenes
(strain EGD-e)
C;Species: Listeria monocytogenes
C;Date: 27-Nov-2001 #sequence_revision 27-Nov-2001 #text_change 09-Dec-2002
C;Accession: AH1192
R;Glaser, P.; Frangeul, L.; Buchrieser, C.; Amend, A.; Baquero, F.; Berche, P.;
Bloecker, H.; Brandt, P.; Chakraborty, T.; Charbit, A.; Chetouani, F.; Couve,
E.; de Daruvar, A.; Dehoux, P.; Domann, E.; Dominguez-Bernal, G.; Duchaud, E.;
Durand, L.; Dussurget, O.; Entian, K.D.; Fsihi, H.; Garcia-Del Portillo, F.;
Garrido, P.; Gautier, L.; Goebel, W.; Gomez-Lopez, N.; Hain, T.; Hauf, J.;
Jackson, D.; Jones, L.M.; Karst, U.
Science 294, 849-852, 2001
A;Authors: Kreft, J.; Kuhn, M.; Kunst, F.; Kurapkat, G.; Madueno, E.;
Maitournam, A.; Mata Vicente, J.; Ng, E.; Nordsiek, G.; Novella, S.; de Pablos,
B.; Perez-Diaz, J.C.; Remmel, B.; Rose, M.; Rusniok, C.; Schlueter, T.; Simoes,
N.; Tierrez, A.; Vazquez-Boland, J.A.; Voss, H.; Wehland, J.; Cossart, P.
A;Title: Comparative genomics of Listeria species.
A;Reference number: AB1077; MUID:21537279; PMID:11679669
A;Accession: AH1192
A;Status: preliminary
A;Molecule type: DNA
```

A;Residues: 1-100 <GLA>
A;Cross-references: GB:NC_003210; PIDN:CAC99022.1; PID:g16410346; GSPDB:GN00177
A;Experimental source: strain EGD-e
C;Genetics:
A;Gene: lmo0944
C;Superfamily: uncharacterized conserved protein

  Query Match   70.7%; Score 29; DB 2; Length 100;
  Best Local Similarity   71.4%; Pred. No. 55;
  Matches   5; Conservative   1; Mismatches   1; Indels   0; Gaps   0;

Qy   1 LVFFAED 7
              |:|| ||
Db   63 LIFFIED 69

RESULT 56
T36555
probable membrane protein - Streptomyces coelicolor
C;Species: Streptomyces coelicolor
C;Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 03-Dec-1999
C;Accession: T36555
R;Seeger, K.J.; Harris, D.; James, K.D.; Parkhill, J.; Barrell, B.G.;
Rajandream, M.A.
submitted to the EMBL Data Library, June 1999
A;Reference number: Z21584
A;Accession: T36555
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-111 <SEE>
A;Cross-references: EMBL:AL079353; PIDN:CAB45550.1; GSPDB:GN00070;
SCOEDB:SCH17.04
A;Experimental source: strain A3(2)
C;Genetics:
A;Gene: SCOEDB:SCH17.04

  Query Match   70.7%; Score 29; DB 2; Length 111;
  Best Local Similarity   71.4%; Pred. No. 61;
  Matches   5; Conservative   1; Mismatches   1; Indels   0; Gaps   0;

Qy   2 VFFAEDF 8
              :||| ||
Db   55 LFFASDF 61

RESULT 57
T24892
hypothetical protein T13F3.4 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 20-Jun-2000
C;Accession: T24892
R;Gardner, A.
submitted to the EMBL Data Library, March 1997
A;Reference number: Z19948
A;Accession: T24892
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA

A;Residues: 1-135 <WIL>
A;Cross-references: EMBL:Z93389; PIDN:CAB07672.1; GSPDB:GN00023; CESP:T13F3.4
A;Experimental source: clone T13F3
C;Genetics:
A;Gene: CESP:T13F3.4
A;Map position: 5
C;Superfamily: Caenorhabditis elegans hypothetical protein C03G6.4

  Query Match   70.7%; Score 29; DB 2; Length 135;
  Best Local Similarity   62.5%; Pred. No. 75;
  Matches   5; Conservative   1; Mismatches   2; Indels   0; Gaps   0;

Qy   1 LVFFAEDF 8
              :|| |||
Db   55 IVFLTEDF 62

RESULT 58
I80320
hypothetical 22K protein - Escherichia coli
C;Species: Escherichia coli
C;Date: 07-Jun-1996 #sequence_revision 07-Jun-1996 #text_change 24-Nov-1999
C;Accession: I80320
R;Chatterjee, P.K.; Sternberg, N.L.
Proc. Natl. Acad. Sci. U.S.A. 92, 8950-8954, 1995
A;Title: A general genetic approach in Escherichia coli for determining the
mechanism(s) of action of tumoricidal agents: application to DMP 840, a
tumoricidal agent.
A;Reference number: I59418; MUID:96004656; PMID:7568050
A;Accession: I80320
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-192 <RES>
A;Cross-references: EMBL:U18656; NID:g609326; PIDN:AAC43452.1; PID:g609327
C;Superfamily: Escherichia coli hypothetical 22K protein

  Query Match   70.7%; Score 29; DB 2; Length 192;
  Best Local Similarity   62.5%; Pred. No. 1.1e+02;
  Matches   5; Conservative   1; Mismatches   2; Indels   0; Gaps   0;

Qy   1 LVFFAEDF 8
              |:|| | |
Db   51 LIFFGEGF 58

RESULT 59
E81221
probable integral membrane protein NMA0021 [imported] - Neisseria meningitidis
(strain MC58 serogroup B, strain Z2491 serogroup A)
C;Species: Neisseria meningitidis
C;Date: 31-Mar-2000 #sequence_revision 31-Mar-2000 #text_change 02-Feb-2001
C;Accession: E81221; A81993
R;Tettelin, H.; Saunders, N.J.; Heidelberg, J.; Jeffries, A.C.; Nelson, K.E.;
Eisen, J.A.; Ketchum, K.A.; Hood, D.W.; Peden, J.F.; Dodson, R.J.; Nelson, W.C.;
Gwinn, M.L.; DeBoy, R.; Peterson, J.D.; Hickey, E.K.; Haft, D.H.; Salzberg,
S.L.; White, O.; Fleischmann, R.D.; Dougherty, B.A.; Mason, T.; Ciecko, A.;
Parksey, D.S.; Blair, E.; Cittone, H.; Clark, E.B.; Cotton, M.D.; Utterback,

T.R.; Khouri, H.; Qin, H.; Vamathevan, J.; Gill, J.; Scarlato, V.; Masignani, V.; Pizza, M.
Science 287, 1809-1815, 2000
A;Authors: Grandi, G.; Sun, L.; Smith, H.O.; Fraser, C.M.; Moxon, E.R.; Rappuoli, R.; Venter, J.C.
A;Title: Complete genome sequence of Neisseria meningitidis serogroup B strain MC58.
A;Reference number: A81000; MUID:20175755; PMID:10710307
A;Accession: E81221
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-206 <TET>
A;Cross-references: GB:AE002381; GB:AE002098; NID:g7225455; PIDN:AAF40693.1; PID:g7225461; GSPDB:GN00119; TIGR:NMB0239
A;Experimental source: serogroup B, strain MC58
R;Parkhill, J.; Achtman, M.; James, K.D.; Bentley, S.D.; Churcher, C.; Klee, S.R.; Morelli, G.; Basham, D.; Brown, D.; Chillingworth, T.; Davies, R.M.; Davis, P.; Devlin, K.; Feltwell, T.; Hamlin, N.; Holroyd, S.; Jagels, K.; Leather, S.; Moule, S.; Mungall, K.; Quail, M.A.; Rajandream, M.A.; Rutherford, K.M.; Simmonds, M.; Skelton, J.; Whitehead, S.; Spratt, B.G.; Barrell, B.G.
Nature 404, 502-506, 2000
A;Title: Complete DNA sequence of a serogroup A strain of Neisseria menigitidis Z2491.
A;Reference number: A81775; MUID:20222556; PMID:10761919
A;Accession: A81993
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-206 <PAR>
A;Cross-references: GB:AL162752; GB:AL157959; NID:g7378778; PIDN:CAB83341.1; PID:g7378799; GSPDB:GN00124; NMASP:NMA0021
A;Experimental source: serogroup A, strain Z2491
C;Genetics:
A;Gene: NMB0239; NMA0021

  Query Match 70.7%; Score 29; DB 2; Length 206;
  Best Local Similarity 75.0%; Pred. No. 1.2e+02;
  Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Qy          1 LVFFAEDF 8
              |||||  |
Db         14 LVFFASGF 21
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RESULT 60
D95021
hypothetical protein SP0184 [imported] - Streptococcus pneumoniae (strain TIGR4)
C;Species: Streptococcus pneumoniae
C;Date: 03-Aug-2001 #sequence_revision 03-Aug-2001 #text_change 25-Aug-2003
C;Accession: D95021
R;Tettelin, H.; Nelson, K.E.; Paulsen, I.T.; Eisen, J.A.; Read, T.D.; Peterson, S.; Heidelberg, J.; DeBoy, R.T.; Haft, D.H.; Dodson, R.J.; Durkin, A.S.; Gwinn, M.; Kolonay, J.F.; Nelson, W.C.; Peterson, J.D.; Umayam, L.A.; White, O.; Salzberg, S.L.; Lewis, M.R.; Radune, D.; Holtzapple, E.; Khouri, H.; Wolf, A.M.; Utterback, T.R.; Hansen, C.L.; McDonald, L.A.; Feldblyum, T.V.; Angiuoli, S.; Dickinson, T.; Hickey, E.K.; Holt, I.E.
Science 293, 498-506, 2001

A;Authors: Loftus, B.J.; Yang, F.; Smith, H.O.; Venter, J.C.; Dougherty, B.A.;
Morrison, D.A.; Hollingshead, S.K.; Fraser, C.M.
A;Title: Complete Genome Sequence of a virulent isolate of Streptococcus
pneumoniae.
A;Reference number: A95000; MUID:21357209; PMID:11463916
A;Accession: D95021
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-234 <KUR>
A;Cross-references: GB:AE005672; PIDN:AAK74365.1; PID:g14971651; GSPDB:GN00164;
TIGR:SP4SP0184
A;Experimental source: strain TIGR4
C;Genetics:
A;Gene: SP0184
C;Superfamily: membrane protein

  Query Match   70.7%; Score 29; DB 2; Length 234;
  Best Local Similarity   75.0%; Pred. No. 1.3e+02;
  Matches   6; Conservative   0; Mismatches   2; Indels   0; Gaps   0;

Qy   1 LVFFAEDF 8
              ||||| |
Db   181 LVFFATSF 188

RESULT 61
A97893
hypothetical protein spr0169 [imported] - Streptococcus pneumoniae (strain R6)
C;Species: Streptococcus pneumoniae
C;Date: 22-Oct-2001 #sequence_revision 22-Oct-2001 #text_change 25-Aug-2003
C;Accession: A97893
R;Hoskins, J.A.; Alborn Jr., W.; Arnold, J.; Blaszczak, L.; Burgett, S.; DeHoff,
B.S.; Estrem, S.; Fritz, L.; Fu, D.J.; Fuller, W.; Geringer, C.; Gilmour, R.;
Glass, J.S.; Khoja, H.; Kraft, A.; LaGace, R.; LeBlanc, D.J.; Lee, L.N.;
Lefkowitz, E.J.; Lu, J.; Matsushima, P.; McAhren, S.; McHenney, M.; McLeaster,
K.; Mundy, C.; Nicas, T.I.; Norris, F.H.; O'Gara, M.; Peery, R.; Robertson,
G.T.; Rockey, P.; Sun, P.M.; Winkler, M.E.
J. Bacteriol. 183, 5709-5717, 2001
A;Authors: Yang, Y.; Young-Bellido, M.; Zhao, G.; Zook, C.; Baltz, R.H.;
Jaskunas, S.R.; Rosteck Jr., P.R.; Skatrud, P.L.; Glass, J.I.
A;Title: Genome of the Bacterium Streptococcus pneumoniae Strain R6.
A;Reference number: A97872; MUID:21429245; PMID:11544234
A;Accession: A97893
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-234 <KUR>
A;Cross-references: GB:AE007317; PIDN:AAK98973.1; PID:g15457712; GSPDB:GN00174
C;Genetics:
A;Gene: spr0169
C;Superfamily: membrane protein

  Query Match   70.7%; Score 29; DB 2; Length 234;
  Best Local Similarity   75.0%; Pred. No. 1.3e+02;
  Matches   6; Conservative   0; Mismatches   2; Indels   0; Gaps   0;

Qy   1 LVFFAEDF 8
              ||||| |